

## Chi Phi Faces New IFC Sanctions

Punishments May Reduce Success in 2002 Recruitment Period

By Kevin R. Lang

NEWS EDITOR

In response to a series of rush violations this year, the Interfraternity Council has levied additional sanctions against the Chi Phi fraternity, including a \$1500 fine and restrictions on recruitment activities for 2002.

Under IFC Judicial Committee bylaws, fines must not exceed \$500 per incident. Chi Phi was originally cited for multiple violations of rules regarding wake-up times and jaunts.

In addition, Chi Phi will not be allowed to mail their rush book to freshmen, and they will not be allowed to contact freshmen over the summer. Chi Phi will also be prohibited from hosting registered events before rush begins in the fall.

House President Isaac J. Dancy '03 said that despite the fact that none of the sanctions would take effect during rush itself, "it would have a severe impact on our rush."

"It seems really harsh in my opinion," he said. "Freshmen

couldn't even theoretically know we existed." Dancy said that Chi Phi relies heavily on their rush book to draw potential pledges.

### IFC tried to negate any advantage

IFC President Rory P. Pheiffer '02 said that the sanctions that were issued as a way to "level the playing field" for next year's rush. "What occurred this past rush gave them an unfair advantage over other houses," Pheiffer said.

Pheiffer admitted that the lack of summer contact "makes their recruitment more difficult."

Vice President Bryan D. Schmid '03, who served as facilitator for the executive review board, declined to comment.

### Chi Phi to request appeal

The IFC's executive review board issued the sanctions on September 21, but Chi Phi is still awaiting a hearing to ask for an appeal. "We haven't had that hearing, but

we should have it soon," Dancy said.

If Chi Phi is granted the chance to appeal, they will ask Judicial Committee to reduce the sanctions. Dancy said that "\$1500 is way out of left field" in relation to fines normally issued for rush violations. He expected the IFC to propose one or two punitive sanctions along with a "constructive solution" that would benefit other FSILGs. Since Chi Phi allegedly damaged rush for other houses, Dancy thought an appropriate sanction would be to host an event promoting other FSILGs, for example.

Chi Phi plans to appeal on the grounds that the sanctions represent "cruel and unusual punishment" as listed in the JudComm bylaws.

JudComm Chair Thomas B. Fisher '02 could not be reached for comment.

### Admins leave work to IFC

According to Dancy, Chi Phi

Chi Phi, Page 16



KAILAS NARENDRAN - THE TECH

Professor Wolfgang Ketterle talks about new technologies that may develop from his research. Ketterle was one of three researchers who jointly received the 2001 Nobel Prize for their work with Bose-Einstein condensates.

## Ketterle Wins Nobel For Work in Physics

By Eun J. Lee

ASSOCIATE NEWS EDITOR

The Royal Swedish Academy of Sciences named MIT Physics Professor Wolfgang Ketterle as one of the 2001 Nobel Prize laureates in Physics on Tuesday for his work in experimentally discovering Bose-Einstein condensates (BEC), a new state of matter.

Ketterle shares this honor with two MIT alumni, Eric A. Cornell PhD '90 and Carl E. Wieman PhD '73. Four other 2001 Nobel prize winners in the categories of Chemistry, Economics, and Medicine also have close affiliation with MIT.

"This is testimony to the excellence of students and faculty who are attracted to MIT, and to our dedication to intense work in fields of fundamental importance," said President Charles M. Vest.

In their press release, the Swiss Academy recognized Ketterle and the two other winners "for the achievement of Bose-Einstein condensation in dilute gases of alkali atoms, and for early fundamental

studies of the properties of the condensates."

"On behalf of the entire [physics] department, this is an unbelievably exciting occasion," said physics department head and Donner Professor of Physics Marc A. Kastner.

Bose-Einstein Condensates (BEC) were first theorized by Albert Einstein and Indian physicist Satyendra Bose in the late 1920's.

Essentially, Einstein predicted that if a gas of certain types of atoms are cooled to a very low temperature, all the atoms will suddenly gather in the lowest possible energy state to form a new state of matter.

"The primary impact of this discovery is that it is one of the few developments in physics recently that has unified the different sub-fields of atomic physics and condensed matter physics," said Professor David E. Pritchard.

The main problem that physicists had to solve in order to exper-

Nobel, Page 12



JOHN E. DRISCOLL of the Campus Police (left) and Stephen D. Immerman, Director of Enterprise Services, await a protest against Dean of Admissions Marilee Jones in Lobby 10 on Wednesday. No students showed up for the protest.

## Administrators Develop New Policies on Alcohol

Anonymous Medical Transport Appears Unlikely, Calls for Emergency Help May Reduce Sanctions

By Richa Maheshwari

STAFF REPORTER

Despite overwhelming student support for anonymous medical transport, MIT has been unable to implement a system that complies with Massachusetts' underage drinking laws.

Massachusetts state law prohibits possession of alcohol by anyone under age 21. Given the potential for disciplinary or even legal sanctions due to underage drinking, Students who need medical assistance due to alcohol consumption have historically been reluctant to call for help.

Alcohol Policies, Page 13

Increased funding will make this weekend's Fall Festival the largest ever.



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## Kenneth Locke Hale

MIT Professor of Linguistics Kenneth Locke Hale died on Monday, October 8 in his Lexington home. He was 67 years old.

Hale arrived at MIT in 1967 with a BA degree in Anthropology from the University of Arizona, and a Masters and PhD in linguistics from Indiana University, Bloomington.

Institute Professor Noam Chomsky called Hale "one of the world's leading scholars." In a MIT News Office press release, Chomsky said Hale was "dear to countless people, he was also one of those very few people who truly merit the term 'a voice for the voiceless.'"

Hale studied the theoretical concept of language universals through cross-linguistic analysis. By learning many structurally diverse languages, Hale could discover the laws that they all shared. Explaining this line of study, Sabine Faltings, professor of linguistics at MIT and Hale's colleague, said, "The idea is that if a particular phenomenon holds in a variety of languages, chances are it is reflection of

what is called Universal Grammar, the properties of human language proper, not a result of accidental or historical reasons."

The preservation of diverse languages was another focus of Hale's career. He argued that language is a key part of a culture. In a 1995 interview, Hale said "When you lose a language, a large part of the culture goes, too, because much of that culture is encoded in the language." To combat this, Hale supported the study of linguistics by native speakers of indigenous languages. Paul R. Platero '73 and LaVerne Masayesua Jeanne PhD '78, Navajo and Hopi, respectively, studied under Hale for their graduate degrees. They are believed to be the first Native Americans to receive doctorates in linguistics.

Philip S. Khoury, dean of the School of Humanities, recalled Hale's work to the MIT News Office. "He had the ability to learn and speak languages by

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# WORLD & NATION

## Schroeder Commits German Military To War on Terrorism and World Role

THE WASHINGTON POST

BERLIN

Chancellor Gerhard Schroeder declared Thursday that the country's postwar role in world affairs, economically powerful but militarily timid, has "irrevocably passed" and that Germany is ready and willing to send troops abroad "in defense of freedom and human rights."

Speaking as U.S. allies are offering troops to the U.S.-led coalition against terrorism, Schroeder told the lower house of Parliament that his country must bury the long-sacred principle of risk-avoidance in foreign policy.

"The willingness to provide security through the military is an important declaration for Germany's allies," said Schroeder. It "means a new self-conception of German foreign policy.... Avoiding every direct risk cannot and must not be the guideline of German foreign and security policy."

Schroeder spoke after a flying visit to the United States this week. In New York, he viewed the devastation at the site of the World Trade Center and appears to have returned home with a renewed sense of outrage.

"After the end of the Cold War, the restoration of German unity and the recovery of our full sovereignty, Germany needs to show a new international responsibility," said Schroeder. "Ten years ago, no one would have expected anything more than secondary help-providing infrastructure or funding. This era of German postwar history... has irrevocably passed."

The German government said again Thursday that the United States hadn't yet requested Germany's participation in the strikes on Afghanistan. But Schroeder's government has approved the sending of five AWAC reconnaissance planes with German crews to the United States to free up similar U.S. planes for use in Asia.

Political analysts here said immediately that Thursday's speech, building on the 1999 decision to send Germans into combat for the first time since World War II, represented an important broadening of Germany's international role.

"This is a defining moment for Germany, and its role is being fixed," said Karl Kaiser, director of the German Council on Foreign Relations. "It didn't go unnoticed that when (President) Bush spoke of the coalition around the U.S. he said it was Britain, France, Australia and Germany. And that has enormous meaning."

## Nobel Prize Goes to V.S. Naipaul

LOS ANGELES TIMES

LONDON

V.S. Naipaul, a master of prose and controversial interpreter of the developing world, won the centenary Nobel Prize for literature Thursday for "works that compel us to see the presence of suppressed histories."

The academy called the sometimes prickly writer the heir to Joseph Conrad "as the annalist of the destinies of empires in the moral sense: what they do to human beings." His style, however, is his own. The academy singled out his highly autobiographical novel "The Enigma of Arrival," about a young Indian from Trinidad in England, as a masterpiece. He is "a literary navigator, only ever really at home in himself, in his inimitable voice," said the Swedish Academy, which awards the prize.

The academy avoided mention of some of Naipaul's more contentious works, such as his critique of Islamic fundamentalism, "Among the Believers: An Islamic Journey," published in the wake of the Iranian revolution. One reviewer said the book ravaged the religion with naked antipathy.

Naipaul has always portrayed himself as "a stateless observer," Jaggi said. He sees himself as an objective truth-teller who is devoid of any political or ideological agenda, a transcendent condition many writers consider to be impossible.

## Fall Color

By Nikki Prive  
STAFF METEOROLOGIST

The region of high pressure which has prevailed in the Boston area all week will linger through Saturday, with clear skies and pleasant afternoon temperatures. A deepening trough of low pressure is expected to develop over the Midwestern states during the next few days, spreading rain from Texas to Ohio. The edge of this system may unsettle the Boston region early next week, bringing clouds, showers, and cooler daytime temperatures.

This week started off with a demonstration of fickle fall weather in New England. The morning snow flurries which occurred on Monday were in strong contrast to the summerlike conditions of last Friday. Although early in the season, these flurries were not record-breaking: the earliest recorded trace of snowfall at Logan airport occurred on October 2, 1899, and the earliest measurable snowfall occurred on October 10, 1979.

Even though the Boston area is not expected to reach peak foliage color levels for another week or two, a short drive to the west or north of the city will bring you to prime leaf-viewing regions. Central and western Massachusetts, Vermont, and northern New Hampshire are all at peak foliage conditions, with 75-100% of the trees in color.

## Forecast:

**Today:** Partly sunny, highs 70 to 75°F (22°C).**Tonight:** Partly cloudy. Lows 50 to 55°F (11°C).**Saturday:** Partly sunny. Highs near 70°F (21°C). Lows in the mid 50s F (13°C).**Sunday:** Mostly cloudy with a chance of showers. Highs in the lower 70s F (22°C).**Monday:** Mostly cloudy with a chance of showers. Lows 50 to 55°F (11°C) and highs 60 to 65°F (17°C).

# Bush Urges Media to Avoid Running bin Laden Speeches

By Ken Fireman

NEWSDAY

WASHINGTON

The Bush administration Thursday expanded its effort to ride herd on information about the campaign against terrorism, asking newspapers and all electronic media not to run unedited comments by Osama bin Laden or spokesmen for his al-Qaida network.

White House spokesman Ari Fleischer said administration officials planned to contact newspapers, radio networks and possibly international television channels to convey the same request made on Wednesday to the five major TV networks: Do not run unedited statements by bin Laden or his representatives because they might contain inflammatory propaganda or hidden instructions to supporters.

"The president is pleased by the reaction of the network executives," Fleischer said. "There will be some additional phone calls made.... The same request that was made yesterday of the network executives will also be made to other media because of the same principle... which is not allowing Osama bin Laden or the terrorists to provide information that could facilitate any of their

objectives in terms of killing Americans, bringing harm to Americans or using those messages as a way of sending a code to their terrorists."

U.S. networks have agreed not to air live, unedited tapes or transmissions of statements from bin Laden or al-Qaida, as they did on Sunday and Tuesday.

Several newspapers ran transcripts of bin Laden's taped statement. Howell Raines, the executive editor of The New York Times, which ran a transcript of bin Laden's statement, received a call from Fleischer Thursday morning, according to Times spokeswoman Catherine Mathis.

"Howell's response was that in ordinary circumstances our practice is to fully inform our readers," she said. "He did say that we would certainly listen to any information from the government that there was a specific danger involved and then make a judgment."

Anthony Marro, the editor of Newsday, which also ran a transcript of the bin Laden statement, said he would deal with any request on a case-by-case basis. "We'll use our best independent news judgment in weighing the importance of the information to readers and

whatever concerns the government has," he said. "If there is a compelling argument that damage could be done by publishing something, we'll listen to it. But our goal is to give readers as much information as we can."

Several critics of secrecy in government complained that the Bush administration was using the crisis created by the terror attacks to clamp down inappropriately on the flow of information to the public. They cited examples that have already occurred, such as the administration sending a letter to comedian Bill Maher and his recent comments regarding American tactics. "All Americans... need to watch what they do," said Fleischer regarding the decision.

"The administration has squandered a good deal of its credibility on this subject by overreaching and suppressing information unnecessarily," said Steven Aftergood, director of the project on government secrecy at the Federation of American Scientists, a nonprofit public policy group. "They began with a presumption in their favor that there is a legitimate need for operational security. But they have squandered a good bit of it."

# U.S. Planes Continue to Strike Afghan Capital for Fourth Day

By Robyn Dixon  
and Paul Richter

LOS ANGELES TIMES

JABAL-US-SARAJ, AFGHANISTAN

U.S. warplanes unleashed their heaviest attacks yet on the Afghan capital of Kabul on Wednesday night while the anti-Taliban opposition claimed that wholesale enemy defections had allowed it to sever a key north-south highway.

On the fourth day of airstrikes, U.S. aircraft flying day and night raids rocked the regions around Kandahar and Kabul, including areas just west of the capital where Osama bin Laden is believed to operate terrorist training camps.

The bombers also hit a Taliban garrison in the northern city of Mazar-i-Sharif, where the Afghan

government is locked in a struggle with the rebel coalition known as the Northern Alliance. Warplanes have bombed the city for three straight days.

In Washington, President Bush issued a list of 22 "most wanted" international terrorists, headed by Bin Laden, the Islamic extremist suspected of masterminding the suicide attacks that flattened the World Trade Center and part of the Pentagon a month ago Thursday.

Administration officials said they hoped that publicizing the terrorists' names and photographs would generate fresh intelligence that could lead to their capture.

The White House also called on television networks to use caution in broadcasting videotaped statements

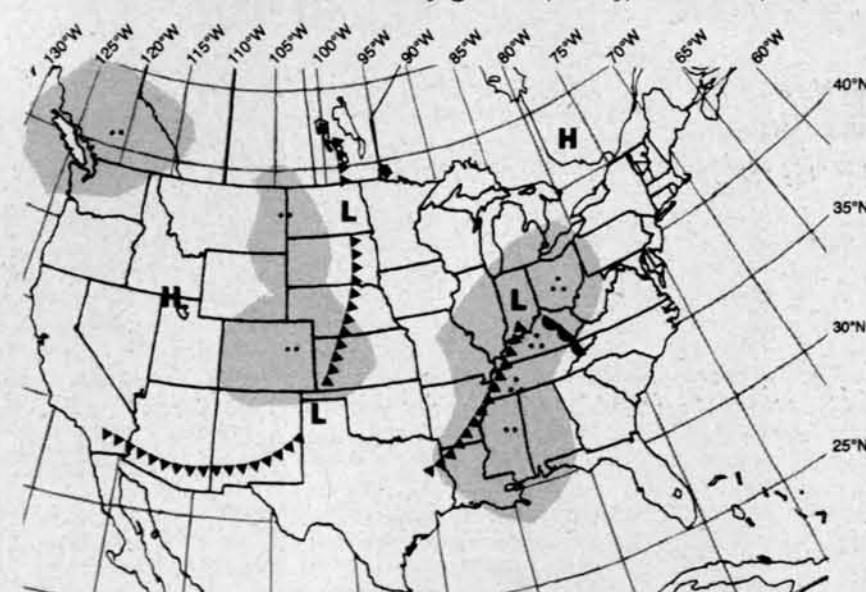
by bin Laden, saying they could incite violence against Americans and might even contain coded instructions for terrorist acts.

Defense Secretary Donald Rumsfeld told reporters Thursday that cave complexes, which he declined to further identify, had been hit by an array of precision munitions.

While Rumsfeld offered no indication whether the caves may have been occupied at the time of the strikes, destroying the complexes was an important objective, since Osama bin Laden, the terrorist leader U.S. officials hold responsible for the Sept. 11 terrorist attacks on New York and Washington, has used fortified caves as residences and headquarters.

# WEATHER

Situation for Noon Eastern Daylight Time, Friday, October 12, 2001



## Weather Systems

H High Pressure

L Low Pressure

S Hurricane

## Weather Fronts

Trough

Warm Front

Cold Front

Stationary Front

# Afghans Wary of US Purpose, Begin to Get Ready for Warfare

By John Murphy

THE BALTIMORE SUN

CHAMAN, PAKISTAN

If the United States has been successfully destroyed Al-Qaida terrorist training camps and crippling airfields, it appears to have failed in its public relations efforts to win the trust of the Afghan people. After five days of bombings, Afghans crossing into Pakistan here from Kandahar and other cities seem to be gearing up for a war that has never been declared against them.

"We don't believe what America says. From the very beginning, America seems to be the enemy of Islam," 32-year-old Gul Mohammad said at this border crossing in western Pakistan, about a two-hour drive from Kandahar. "All the Afghans are very angry."

They are burning the humanitarian food aid dropped by U.S. forces. Men are encouraging wives and daughters to train for battle. And many Afghans appear to relish the thought of entering a ground war

with U.S. troops, who they hope to defeat as they did Soviet Union and British armies in the past.

Afghans' comments at the border mimicked those of the Taliban ambassador to Pakistan, Abdul Salam Zaeef. During a news conference Thursday, the ambassador was asked about the possible deployment of U.S. ground troops in Afghanistan. He replied: "When the Americans enter Afghanistan, here will start the real war—not now."

U.S. State Department Spokesman Richard Boucher this week said that Voice of America is expanding its broadcasts aimed at Afghanistan, hoping to persuade the population that the U.S.-led military campaign is meant for terrorists only.

The Embassy of Pakistan is also making more material available to the news media in Pakistan, where fundamentalist Islamic groups are threatening more anti-American protests.

But it is difficult to convince the Afghan population of America's intentions. The United States

humanitarian gesture of dropping more than 100,000 daily rations inside Afghanistan's needy areas may be backfiring.

"Whatever aid America has given us through air we just set it on fire," said Mujahid Habib Ullah, 24, who had just arrived in Chaman from Kandahar. "The Taliban collected them all and set them on fire. We don't need aid. Leave us—we want to grow our own wheat. We want to have our own food."

Many Afghans complained of the suffering of their friends, neighbors and relatives, who are trying to survive outside the city of Kandahar, now half abandoned.

Each night in Kandahar, residents have kept their nerve when the bombs start falling, said Sullah.

"Believe me, when they come at nighttime to strike all the Afghans say, 'Welcome! Welcome! They are giving us bombs again. We are happy.' It's very sad that we don't have anything to hit the planes, but we are ready for the land war," he said.

## Military Forces Using Pakistani Bases for Campaign, Sources Say

By Tyler Marshall  
and Rone Tempest

LOS ANGELES TIMES

ISLAMABAD, PAKISTAN

For the first time since military operations against Afghanistan's Taliban regime began, U.S. forces are using at least two bases inside Pakistan, senior Pakistani intelligence and military sources said early Thursday.

According to these sources, U.S. helicopters and other supporting aircraft have arrived at a Pakistani military base at Jacobabad in central Sind province and at a little-used airstrip at Pishin, northeast of Quetta only a few miles from the Afghan border.

A Pakistani military official who declined to be identified said the U.S. military presence is currently limited to the aircraft and their supporting crews and that no combat troops are present.

"They seem to be preparing for low-flying operations, perhaps for reconnaissance purposes," the source said. The airstrip at Pishin is only a few minutes' flying time from Afghanistan and only about 20 minutes by helicopter from the Taliban's spiritual capital, Kandahar.

Tensions still exist between the Pakistan and the Northern Alliance.

Pakistan has been vocally opposed to allowing the alliance to retake the capital.

Gen. Pervez Musharraf has said the Northern Alliance must not be allowed to get any mileage out of the U.S. military campaign. Other Pakistani officials have warned that a Northern Alliance triumph in Kabul would turn into a blood bath.

Earlier this week, Pakistani President Gen. Pervez Musharraf said his country's participation in the coalition efforts would be limited to allowing use of its airspace, sharing intelligence and providing logistical support.

"At the moment," Musharraf said Monday after the first round of air attacks began, "whatever is going on is not from Pakistan." But the Pakistan president left the door open for possible further involvement.

The arrival of U.S. military personnel on Pakistani soil is likely to add fuel to religious extremists inside the country who oppose the allied military operations. Since the airstrikes began Sunday, anti-American protesters have staged demonstrations across Pakistan, with the largest and most violent in the Sept. 11 terrorist attacks against the United States.

Pakistan military authorities declined to confirm any of the deployments officially.

The airstrip in Pishin is in an area with large concentrations of Afghan refugees who strongly support the Taliban regime.

In Thursday's editions, the Karachi-based newspaper Dawn reported that Pakistani military authorities had taken control of four airports in Sindh, Baluchistan and Punjab provinces and suspended commercial flights at them.

Dawn reported that the other bases involved are in Pansi and Gwadar near a large Pakistani naval base, Panjuri, 100 miles northeast of Gwadar, and Dera Ghazi Khan, about 100 miles east of Quetta and about 80 miles from the Afghan border.

In a telephone interview, Dawn reporter Shamim Shansi said about 2,000 Pakistan army troops had sealed off the commercial airport at Jacobabad.

U.S. officials have repeatedly suggested that the next phase of military operations in Afghanistan could include the dropping of small Special Forces units to hunt Saudi exile Osama bin Laden, the prime suspect in the Sept. 11 terrorist attacks against the United States.

Pakistan military authorities declined to confirm any of the deployments officially.

## Fahim May Attempt Struggle to Unite Afghan Rebels After Taliban's Defeat

By Peter Baker  
and William Branigan

THE WASHINGTON POST

JABAL-US-SARAJ, AFGHANISTAN

A taciturn man with none of the late Ahmed Shah Massood's magnetism, Gen. Mohammed Fahim, 44, will be hard-pressed to match his mentor's ability to control the Northern Alliance's quarrelsome factions over the long term.

"Fahim doesn't have the facility to get the parties together," said a Western diplomat. Compared to Massood, "he doesn't have the standing and will never have the standing."

Built like a fireplug and with a face like a boxer, Fahim is a man of few words and not much formal military training, those who know him say. Born in Northern Afghanistan's Panjshir Valley, the son of a Muslim cleric, he went to Kabul to study Islamic law in the 1970s and joined Burhanuddin Rabani's Jamiat-i-Islami move-

ment. During a crackdown against the movement by leftist president Mohammed Daoud, who had deposed the Afghan monarchy in 1973, Fahim fled to neighboring Pakistan, where he teamed up with another young exile and fellow ethnic Tajik, Massood.

He later returned to Afghanistan with Massood to organize politically against Daoud. Then, after a bloody communist coup in April 1978, he began helping Massood build his guerrilla army of Islamic mujaheddin, or holy warriors. According to Northern Alliance officials, Fahim served as Massood's intelligence chief and worked mainly on political issues for him, often journeying to provinces beyond the Panjshir to meet with other resistance factions on his behalf.

"He was not a military person," said Mohammed Saleh Registani, the alliance's military attache in Dushanbe, Tajikistan. When the mujaheddin defeated

what had been a Soviet puppet government and seized Kabul in 1992, Fahim became security minister in the Rabbani government and became actively involved in military operations. He stayed by Massood's side when the Taliban drove them from Kabul in 1996. Now Fahim appears confident he can achieve the late commander's dream of recapturing Kabul without the widespread destruction that ravaged the capital during past power shifts.

"We will try our best to ... prevent looting, revenge and other problems when we take Kabul," he told the Reuters news agency recently. "We will make sure that the bitter experiences of the past are not repeated."

New confidence and policies could give Fahim the credibility he currently lacks, but there are other senior generals who could emerge as leading figures in the post-Taliban world.

## Argentines May Cast Protest Vote in Elections

THE WASHINGTON POST

BUENOS AIRES, ARGENTINA

Argentines vote Sunday in key legislative elections, and opinion polls show the country's 25 million registered voters are harboring their deepest sense of disgust with politicians since democracy was restored in 1983. Angry over what many call the governing coalition's ineptitude in dealing with Argentina's economic crisis and petty bickering and corruption among all parties, one in four Buenos Aires voters said they will cast a blank or spoiled ballot. Nationwide, polls suggest the protest vote could reach 15 percent—more than double the average in past elections.

All 72 seats in the opposition Peronist-controlled Senate are being contested Sunday. Half the seats in the lower house, now dominated by the governing center-left coalition, are up for grabs. The Peronists are expected to post moderate gains. But one big winner, according to opinion polls, may be a write-in candidate, Clemente, a popular Argentine cartoon character who has no arms so that he cannot rob from the people.

The sentiment here represents what analysts call a growing frustration among Latin Americans with their elected leaders. In countries as diverse as Argentina, Peru, Brazil and Colombia, opinion polls show a sharp drop in public support for elected leaders. Analysts say the polls reflect not a rejection of democracy, but a profound disappointment with individual politicians at a time when the region seems locked in a pattern of economic downturns.

"No one wants a return to the (military governments) of the past," said Marita Carballo, president of the polling firm Gallup Argentina. "This is not a rejection of democracy; this is a sign of displeasure with the politicians who have emerged thus far."

Nowhere is that more true than in Argentina, where a deepening political crisis is partly to blame for a worsening three-year recession that analysts said has increased the risk of a currency devaluation and debt default. Many Argentines object to some provisions in Cavallo's "zero deficit" budget plan, which was essential to obtaining the loans.

It imposed deep cuts in pensions and government salaries to avoid a default on Argentina's \$132 billion debt. Critics say that Cavallo, a Harvard-trained economist who devised Argentina's opening to a free market economy in the 1990s under former President Carlos Menem, has yet to come up with a viable plan to jump-start the economy.

## Puerto Rico Governor Gets Support on Vieques Stance

THE WASHINGTON POST

Puerto Rico Gov. Sila Calderon met with Vieques protest leaders earlier this week and won at least grudging support for her efforts to end the Navy's use of the island of Vieques for bombing exercises. She's in a particularly difficult situation now with lawmakers and defense officials arguing that Vieques is needed more than ever for training as a result of the Sept. 11 terrorist attacks.

Calderon supports the Bush administration's proposal to scrap the November referendum on stopping the exercises and to impose a May 3, 2003, exit date for the Navy. But if Congress doesn't include a firm date in the defense authorization legislation, she would oppose killing the referendum.

According to the San Juan Star, Robert Rabin, one of the protest leaders, said they were now satisfied with Calderon's explanation of her efforts to press the Bush administration.

"Without being more specific," the newspaper reported, "the governor explained that Republican lobbyists working for the Puerto Rican government had (been) actively advancing the government's position in the White House," said Rabin.

Some protesters have faulted Calderon's lobbyists. One is Jose Paralitici, who wrote that he didn't want "to take away their merits," but he was critical of "lobbyists Charlie Black and others." He proposed hiring Republicans Carlos Rodriguez of California, who Paralitici said is a close friend of Bush adviser Karl Rove.

Black's lobby shop helped organize Calderon's meetings in Washington earlier this year, including one with Josh Bolton, Bush's deputy chief of staff. Black hasn't lost his client, although he said Vieques "hasn't been a major lobbying assignment of mine."

## Investor Schnabel Sworn in As U.S. Ambassador to EU

LOS ANGELES TIMES

Rockwell "Rock" Schnabel, founder and co-chairman of Palo Alto, Calif.-based Trident Capital, was sworn in this week as the U.S. ambassador to the European Union, serving as the nation's chief liaison with one of the nation's key trading partners.

Schnabel, 64, who was based in Los Angeles, said his first mission when he arrives at his new office in Brussels, Belgium, will be to assist in the multinational fight against terrorism. Beyond that, he said that he will coordinate between the United States and the EU on matters ranging from trade to the international response to AIDS.

A native of The Netherlands, Schnabel served as deputy Commerce secretary for former President George H.W. Bush. He was recently considered for ambassador to Italy.

Between 1986 and 1989, Schnabel served as the U.S. ambassador to Finland. The White House cited his background as both an international financier and a diplomat in nominating him to the post.

Schnabel, who was confirmed in September and sworn in by Secretary of State Colin L. Powell, served on the Los Angeles fire and police pension board from 1993 to 1996. He also was a member of the Los Angeles Olympic Organizing Committee for the 1984 Games.

Founded in 1993, Trident Capital invests heavily in information technology and Internet-related companies and was an early investor in MapQuest and CSG Systems. The company has more than \$1.4 billion under management.

# OPINION



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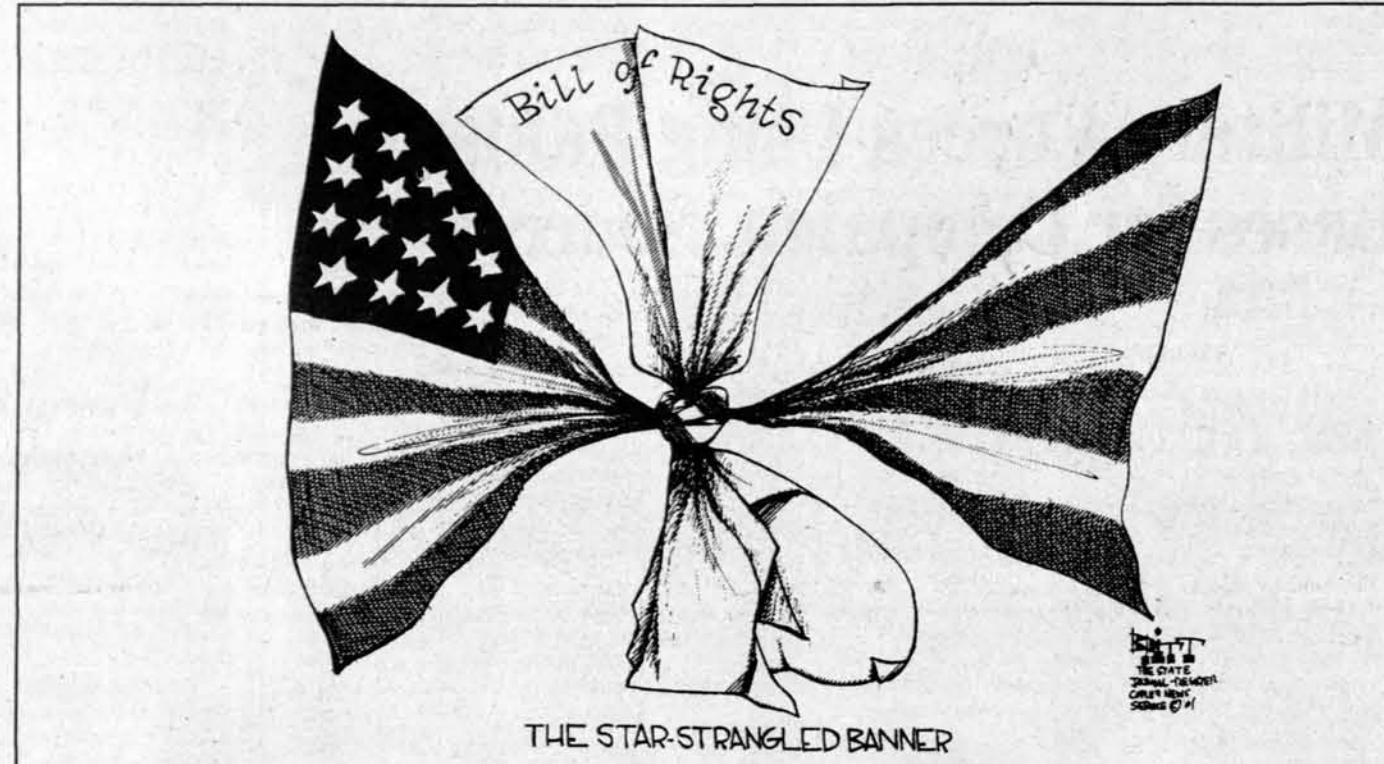
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THE STAR-STRANGLED BANNER



MIKE THOMPSON © 2001 MIKE THOMPSON

THE GREAT SATAN, HUH?

FOOD FOR THOUGHT

## Opinion Policy

**Editorials** are the official opinion of *The Tech*. They are written by the editorial board, which consists of the chairman, editor in chief, managing editor, executive editor, news editors, features editor, and opinion editors.

**Dissents** are the opinions of the signed members of the editorial board choosing to publish their disagreement with the editorial.

**Columns and editorial cartoons** are written by individuals and represent the opinion of the author, not necessarily that of the newspaper.

**Letters to the editor** are welcome. Electronic submissions are encouraged and should be sent to letters@the-tech.mit.edu. Hard copy submissions should be addressed to *The Tech*, P.O. Box 397029, Cambridge, Mass. 02139-7029, or sent by interdepartmental mail to Room W20-483. All submissions are due by 4:30 p.m.

two days before the date of publication.

**Letters and cartoons** must bear the authors' signatures, addresses, and phone numbers. Unsigned letters will not be accepted. No letter or cartoon will be printed anonymously without the express prior approval of *The Tech*. *The Tech* reserves the right to edit or condense letters; shorter letters will be given higher priority. Once submitted, all letters become property of *The Tech*, and will not be returned. *The Tech* makes no commitment to publish all the letters received.

## To Reach Us

*The Tech's* telephone number is (617) 253-1541. E-mail is the easiest way to reach any member of our staff. If you are unsure who to contact, send mail to general@the-tech.mit.edu, and it will be directed to the appropriate person. *The Tech* can be found on the World-Wide Web at <http://the-tech.mit.edu>.

# Freedom of Speech, to an Extent

Michael Borucke

It would seem that students are able to say pretty much whatever we want at MIT. We can criticize the President, we can write exposés on faculty and their CIA connections, we can even complain about meal plans. But the extent to which this institution protects freedom of speech is perhaps best demonstrated by what MIT has done to one of its employees who tried to exercise his freedom of speech.

Here is a condensed version of the story: Last Thursday, Hatch Sterrett, an MIT employee who works at the DuPont-MIT Alliance located in the Chemical Engineering Building, handed out flyers at a Shell Oil presentation on campus. These flyers called into question Shell's claims to social responsibility. During the question and answer period of the presentation, Mr. Sterrett asked the Shell representatives about their company's social responsibility. The next day, Mr. Sterrett received a memorandum notifying him of his suspension and potential dismissal from his job. It was explicitly stated in the memo that his activities the prior night were the reason for his suspension. Individuals from the department of chemical engineering had lodged complaints with administration. Unbeknownst to Mr. Sterrett, it was the chemical

engineering department which had invited Shell to give the presentation.

Soon after his suspension, members of MIT's Social Justice Cooperative began letter writing and media campaigns to attract attention to the incident. I could mention the dubious legal ground upon which the suspension was handed out, but it's now a moot point. President Vest released a statement this past Tuesday, notifying the community of Sterrett's full reinstatement.

Even though everything seems to have turned out fine, this incident points to a couple of larger problems at MIT and universities in general: one is the increasing influence corporations have on campuses; another is the encroachment of the university on employee's rights.

MIT's love affair with industry is no secret. They give us money, we give them the fruits of our research; they give us a new building, we pump out some workers that know how to program. It's a give and take relationship. The question is, when does this cozy symbiosis break down and assimilation begin? Will we recognize that point when we (the university community) lose our autonomy and become fully inserted into the matrix? Have we already passed that point? Are we now completely dependent on and subordinate to the power that

is the multi-national corporation? Is this even worth discussing?

Of course it is. The ties that link universities to industry are also the ties that encourage us to remain silent about corporate behavior. If this behavior should fall short of decent, then we have a problem.

As current policy stands, Shell can be complicit in the murder of Nigerian Writer/Activist Ken Saro-Wiwa, and Shell can extract millions of gallons of oil, devastating the environment in the process and leaving the Nigerian population as poor as ever. However, the company still remains a legitimate body that is able to elicit workers and research from the Massachusetts Institute of Technology. But when a socially conscious MIT employee tries to point out this type of despicable behavior to students, that is not accepted. What in the hell kind of totalitarian state is this?

What's possibly even more distressing is that more and more, it's not the corporations that are threatening to sever university ties; it is self-censorship on the part of the university in an effort to not aggravate the large benefactors. During Apartheid, then-Provost John Deutsch wouldn't divest MIT funds from corporations with holdings in South Africa for fear of driving away corporate investment from MIT.

But the current issue isn't even about

attempting to influence corporate behavior through divestment; it's much more fundamental. It's about the range of expression that a member of the MIT community is capable of without fearing attacks on his or her livelihood. Today, administration can't allow an employee to raise awareness of corporate behavior, even if done on his own time, in collaboration with an official student group, and in a "respectful" manner. The reason for this repression? Current active agreements between MIT and Shell are worth over two million dollars.

While it's true that every workplace needs its employees to maintain an effective level of cooperation and respect for the purposes of their jobs, the atmosphere at MIT has gone well beyond that, to induce fear and self-censorship. There is widespread class condescension expressed in off-hand remarks, which support and service staff must bite their tongues and bear.

MIT would really benefit from a culture of openness and dialogue – about political and challenging questions – so we learn how to increase our hope and our morale. If this Institute is really to fulfill the spirit of its great commencement speeches and its earnest crisis pronouncements, it needs to take some character-building risks in support of its members—all of them.

## The Reality of Faith

Dan Tortorice

In last Friday's edition of *The Tech*, Matt Craighead argued that religious belief undoubtedly leads to evil, and that religion is to blame for the recent terrorist tragedies. Such an extreme thesis is as wrong and dangerous as it is shocking. It has no defense and insults and threatens the many members of the MIT community who are also people of religious faith.

It is remarkable, that in a piece devoted to the power of reason, Craighead is willing to commit a clear logical error while defending his idea. His logical error results from equating the actions of a small group of individuals with the larger group of which they are a part. He argues that "belief in any sacred religious text will undoubtedly lead to evil," his evidence a few Islamic terrorists and a few abortion clinic bombers. While these actions are abhorrent, they are the acts of a few members of a much larger group. If Craighead's thesis had any credibility, then we would live in a world of constant evil and violence, for there are over one billion Muslims on the world, and even more Christians. If religion undoubtedly leads one to become an evil person, then why do we not see evil acts from all these people as well? The answer is that only a very small number of people of religious faith pervert the faith to the degree where they reverse its teachings to justify the killing of innocent people.

What puzzles me is that Craighead refers to the people in his examples as fanatics. Does he not know that fanatics are not good indicators of a group at large? Using the same level of evidence Craighead offers, I might as well conclude that reading *The Catcher in the Rye* will undoubtedly lead one to shooting a member of the Beatles.

But it is true that Craighead attempts to defend his extreme view in another way. He quotes a particularly vivid section of the Koran, claiming that the section proves Islam is a religion bent on destruction of innocent people. He claims that if people just read the Koran they would realize this. This is just silly. While Craighead may be right to suggest that many political commentators have not read the Koran, many other people who have read the Koran believe that Islam is a peaceful religion. They are called Muslims. Craighead must explain why only a very small number of the one billion Muslims in the world resort to violence if he really wants to claim that Islam is not a peaceful religion.

Craighead's final claim against religious faith argues that faith is intrinsically opposed to reason. But this is such a superficial view of faith that his argument is not applicable to real life. To him, the man of faith is a man who shuts off the reasoning part of his brain. Who takes the answer to every question, from what color socks he should wear to whether or not there is a God, on faith. No one lives like this. The man of faith does not abandon his reason but recognizes that some truths are unknowable and, after encountering an idea on a certain unknowable truth which he feels is reasonable, excepts it as true on faith.

Under this reasonable definition of faith it becomes clear that Craighead is a man of faith. He writes, "Faith means [you] shut your eyes and pray that a non-existent God..." Why is Craighead so sure that God does not exist? Certainly, he does not have a logical proof of the

non-existence of God, for such a proof would be the philosophical achievement of the 21st century, and Craighead would be doing more important things right now than writing for *The Tech*. More likely, he has surveyed different views on the issue and concluded that it is reasonable to believe that God does not exist. He has taken a position on a question that is unknowable. In short, he has faith in God's non-existence.

We all know that some questions can not be answered simply by logical reasoning. In fact, one of the intellectual achievements of the 20th century, Gödel's incompleteness theorem, tells us that any set of premises from which one is capable of deriving all truths of modern mathematics is insufficient to prove all true statements.

The sophisticated man of faith says simply this: science can tell me how the physical world operates, but I am also interested in the metaphysical world. I am interested in knowing if there is a God out there who can effect my life, I am interested in knowing why I exist, I am interested in knowing if my life has meaning. The man of faith confronts these questions and accepts answers. He accepts these answers, not because he has abandoned his reason, but because he knows there is no definitive answer, and he finds joy in the answers he accepts.

This is truly what faith is. It is a response to the uncertainty that is intrinsic in life. It is not just any response, but a powerful response that can transform one's life. The power of Faith gave Mother Teresa, a small woman from Croatia, the strength to care for lepers of the streets of Calcutta. It sustains the many Christian missionaries caring for people throughout the world, and it provides hope to the American soldiers who are about to fight a war in Afghanistan. When cognizant of the power of faith to truly transform ones life, is there any doubt as to why people will choose faith over doubt when it comes to those life questions for which reason's answer is ambiguous?

Finally, I want to express regret that Craighead's article appeared in print at all. He is using the attacks of September 11th to promote his own personal viewpoint. He has entered the ranks of Pat Robertson and Jerry Falwell, who have chosen to blame certain groups for the attacks. Though Robertson and Falwell blame homosexuals, and Craighead blames religious people, make no mistake that they are both exploiting national tragedy to advance their own views. Such men should have the tact to wait at least until the dirt has settled on the victims' graves, before exploiting their deaths.

More importantly though, Muslims have been the victims of violence all across our nation. A member of the MIT community has publicly said that, "[Muslims] better be 100% American or they will get what is coming to them." At a time when Muslim in the MIT community fear for their safety, it is even more wrong to attack them as a group. When Craighead writes that Islam is a dangerous religion, he is implying something about the people who practice that religion. But these people are not to blame for the attacks, nor are their beliefs; to suggest so is immoral and irresponsible. On the off chance that anyone is convinced by Craighead's article, and on the off chance that that person decides to seek revenge against those Craighead blames, we will know who will be responsible then.

At that time, Mr. Craighead will be to blame.

## Rationality of Various Worldviews

Guest Column

Brian A. Bucher

In the October 5th issue of *The Tech*, Matt Craighead wrote an article entitled "Religion is to Blame," in which he makes several sweeping and unsupported assertions about the irrational nature of religion and how "belief in any sacred religious text will undoubtedly lead to evil." I must say that I was both saddened and amused by his article — saddened because of his poor portrayal of the Christian faith in particular, which I take as being made in ignorance and not willful misrepresentation, and amused because of his attempt to characterize the theistic religions as not reasonable while arguing from the atheistic worldview. What I would like to do is briefly address his assertion that all faith (and specifically, biblical faith) is "the opposite of reason" and examine his implied claim that atheism is rationally superior. I do not feel qualified to speak for Islam or other religions, so my comments might accurately reflect only the Christian worldview.

Contrary to Mr. Craighead's assertions, the essence of biblical Christianity is not faith in an unknowable God, but a God who can be known through self-revelation and a personal relationship. This biblical faith, of course, walks hand-in-hand with reason, and not against it. While not all Christians exemplify the model, nevertheless the model remains that Christianity is an intellectually robust belief system. "Faith" based on nothing and against the evidence is simply illusory or self-deception. Perhaps Mr. Craighead's faith is the opposite of reason, but biblical faith certainly is not. And it is this issue of Mr. Craighead's (and others) atheistic faith, so to speak, that I would like to examine. While reading his article I found that two of his comments stood out. First, in regards to faith he says that "man is controlled by destiny and not by his own free will," and second, "faith leads to ruin... by eliminating the capacity for independent judgment." What I find amusing is that he applies these statements to theistic, religious faith when they more properly belong to his own atheism. Now, I don't think for a moment that the reader will blindly accept my assertion over Mr. Craighead's, so I'll explain why I believe this is the case.

A generally accepted foundational belief of atheism is that the natural world is all that exists and man is the product of naturalistic

evolution. As Carl Sagan said, "The Cosmos is all that is, or ever was, or ever will be." All that exists is matter and energy, and is described by some completed form of physics. We may not yet know what this physics consists of, but with each scientific advance we move closer to this final form. God does not exist, miracles are not possible, and people are physical beings without an immaterial soul. Now, if man is purely physical, and all matter and energy acts according to the laws of physics, then it follows that man acts according to the laws of physics. This is determinism. "Free will" on this view is illusory. To quote Mr. Craighead, "man is controlled by destiny and not by his own free will."

*By "eliminating the capacity for independent judgment," atheism fails to meet this necessary criterion for rationality. Since all beliefs formed on this belief system are irrational, belief in atheism is as well.*

We are destined to believe what we believe, not because we evaluated evidence and came to a decision by using our cognitive faculties, but because as biochemical machines we act according to the laws of physics. Our "beliefs" are truly just the result of chemical reactions, no more "rational" that A plus B yields C plus D. But if we are not self-determined and cannot use our cognitive faculties to evaluate evidence, we are, by definition, not rational. By "eliminating the capacity for independent judgment," atheism fails to meet this necessary criterion for rationality. Since all beliefs formed on this belief system are irrational, belief in atheism is as well. The conclusion to be drawn is that belief in atheism undercuts itself and is rendered irrational.

As a side note, appealing to the indeterminacy of quantum mechanics does not help the atheistic cause. Even if we grant that this indeterminacy is ontological (real) and not just epistemological (indeterminate because we can't predict given insufficient knowledge), we are left with man being ultimately indetermined, not self-determined, and self-determination is required for rationality.

Of course, Mr. Craighead can appeal to his own 'faith' at this point. If he chooses to simply believe that he is self-determined even in the face of a deterministic universe, he is free to do so. Unfortunately for him, this would require the very blind faith he castigates religions for. From my perspective, until Mr. Craighead can supply adequate justification for his belief that he is a free agent capable of rational thought, he may want to reconsider his attacks on the rationality of religious belief systems which do supply such justification.

Brian A. Bucher graduated in 1999 with a Master's Degree in Chemical Engineering.

Do you have an opinion on military action in Afghanistan?  
letters@the-tech.mit.edu



**Clubs**

**Axis**  
13 Lansdowne St., 617-262-2437  
Sundays: See Avalon below.  
Mondays: *Static*. Gay, casual dress. \$5, 18+.  
Thursdays: *Chrome/Skybar*. Progressive house, soul, disco; dress code. \$10, 19+; \$8, 21+.  
Fridays: *Spin Cycle*. Prog. house, 80s. \$12, 19+; \$10, 21+.

**Avalon**  
15 Lansdowne St., 617-262-2424  
Sundays: *Gay Night* (with Axis on long weekends). Featuring hardcore house and techno. \$10, 21+.  
Thursdays: *International Night*. Eurohouse. \$10, 19+.

Fridays: *Avalon House*. \$15, 19+.

Saturdays: *Downtown*. Modern house, club classics, and Top 40 hits. \$15, 21+.

**Karma Club**  
9 Lansdowne St., 617-421-9595  
Sundays: "Current dance favorites" by guest DJs. Cover varies.  
Tuesdays: *Phatt Tuesdays*. With Bill's bar, modern dance music. \$10.  
Wednesdays: *STP*. Gay-friendly, house. \$15, 21+.  
Thursdays: *Groove Factor*. House. Fridays: *Pure*. Drum and bass, guest DJ. \$15, 19+.  
Saturdays: *Elements of Life*. International House. \$15.

**ManRay**  
21 Brookline St., Cambridge, 617-864-0400  
Wednesdays: *Curses*. Goth. Appropriate dress required. \$5, 19+; \$3, 21+.  
Thursdays: *Campus*. Popular tunes + House. Gay, casual dress. \$10, 19+; \$8, 21+.  
Fridays: *Fantasy Factory* (First and third Friday of the month). Features kinky fetishes and industrial music.) *Hell Night* (every second Friday, 19+. Includes Goth music.) *Ooze* (the last Friday of the month.) \$10, 21+. Reduced prices for those wearing fetish gear.  
Saturdays: *Liquid*. Disco/hse. + New Wave. \$15, 19+; \$10, 21+.

**Popular Music**

**Axis**  
13 Lansdowne St., 617-262-2437  
Next: 423-NEXT  
Oct. 17: *Lucky Boys Confusion/Bad Ronald*.  
Oct. 19: *The Damned*.  
Oct. 20: *Primer 55*.  
Oct. 26: *Spiritualized*.  
Oct. 27: *Good Charlotte*.  
Oct. 31: *Gathering of the Wolves*, with *Morning Side*, *Deuelo*, *Devour*, *Grufuck*, *The Budha*, *A Cold Reality*.  
Nov. 9: *Social Distortion*.  
Nov. 11: *Suicide Machines*.

**Avalon**  
15 Lansdowne St., 617-262-2424  
Oct. 12: *Megadeth*.  
Oct. 16: *Sum 41*.  
Oct. 30: *They Might Be Giants*.  
Oct. 31: *Cowboy Mouth*, *Fighting Gravity*.

**Berklee Performance Center**  
Berklee College of Music  
1140 Boylston St.  
Free student recitals and faculty concerts, 4 p.m. and 7 p.m. some weekdays. For info on these concerts, call the Performance Information Line at 747-8820.  
Oct. 13: *Dulce Pontes*.  
Oct. 14: *Gal Costa*.  
Oct. 25-28: *A Fool for Love*.  
Nov. 3: *Miriam Makeba*.  
Nov. 4: *Glory Bound*.  
Nov. 11: *Cesaria Evora*.  
Nov. 14: *Suzanne Vega*.  
Nov. 16: *Whispers*.

**Club Passim**  
47 Palmer St., Cambridge, 617-492-7679  
Tuesdays: Open Mic at 8 p.m. (sign up at 7:30). \$5.  
Oct. 12: *Carrie Newcomer*.  
Oct. 13: *Don White*.  
Oct. 17: *Teddy Goldstein*, *Brian Webb*.  
Oct. 18: *Kevn Kinney*.  
Oct. 19: *Geoff Muldaur*.  
Oct. 20: *Rockwell Church*.  
Oct. 21: *Willy Porter*.  
Oct. 22: *Sumaj Chasquis*.  
Oct. 24: *Vlnx*.  
Oct. 25: *Michael McDermott*, *Lis Harvey*.  
Oct. 26: *Geoff Bartley*, *The Be Good Tanyas*.  
Oct. 27: *Jim's Big Ego*.

**FleetCenter**  
Ticketmaster: 931-2000.  
Oct. 26: *Rod Stewart*.  
Nov. 24: *Bob Dylan*

**The Middle East**

# On The Town

A weekly guide to the arts in Boston  
October 12 - 18  
Compiled by Fred Choi

Send submissions to ott@the-tech.mit.edu or by interdepartmental mail to "On The Town," The Tech, W20-483.



CHAPMAN BAERLER

**Megadeth members (from left) Jimmy DeGrasso, Dave Mustaine, David Ellefson, and Marty Friedman hit Avalon tonight with guests Endo; tickets \$25.25.**

Central Square, 354-8238  
Ticketmaster: 931-2000.  
Oct. 12: *Scissorfight*, *Roadsaw*.  
Oct. 13: *Sleazegrinders Wedding Party*.  
Oct. 17: *Ivy*, *David Mead*.  
Oct. 17: *Dianogah*.  
Oct. 18: *Random Roadmother*.  
Oct. 19: *Rock \* a \* Teens*.  
Oct. 20: *Guided by Voices*.  
Oct. 21: *Kings X*, *Moke*.  
Oct. 25: *Misfits 25th Anniversary Tour*-marky Ramone, Robo & Dez.  
Oct. 29: *Jonathan Richman*.

## Classical Music

**Boston Symphony Orchestra**

Tickets: 266-1492.  
Performances at Symphony Hall, 301 Massachusetts Ave., Boston, unless otherwise noted. There is a new format for tickets for MIT students. The Council for the Arts will be distributing cards free in Lobby 10 until Oct. 18 on a first come, first served basis. Visit [www.mit.edu/arts/general/BSO.html](http://web.mit.edu/arts/general/BSO.html) for more information.

Oct. 18-20, 23 at 8 p.m.: Bach: Concerto for Three Violins, Strings, and Continuo. Martin: Concerto for Seven Wind Instruments, Timpani, Percussion, and String Orchestra. Bruch: Kol Nidrei, for double bass and orchestra. Bartok: Concerto for Two Pianos, Percussion, and Orchestra. Featuring the solo talents of many BSO players, Seiji Ozawa, conductor. Pre-concert talk given by Robert Kirzinger, BSO Publications Associate, from 7:30pm in Symphony Hall.

Oct. 25 at 10:30 a.m. (rehearsal), Oct. 25, 27 (sold out) at 8 p.m., Oct. 26 at 1:30 p.m.: Takemitsu: Dream/Window; Dutilleux: The shadows of time; Beethoven: Symphony No. 3 in E-flat, Op. 55, Eroica. Seiji Ozawa, conductor. Pre-concert talk given by Marc Mandel an hour prior to each performance.

Oct. 12: Bjork.  
Oct. 15: Tori Amos.

## Jazz Music

**Regattabar**

Concertix: 876-7777  
1 Bennett St., Cambridge 02138, 617-662-5000  
Call for schedule.

**Scullers Jazz Club**

DoubleTree Guest Suites, 400 Soldiers Field Rd., Boston, 617-562-4111

## Theater

**Old Times**

Oct. 12-Nov. 3, Fri. and Sat. at 8 p.m., Sun. at 2 p.m.: Critically hailed as Harold Pinter's most important play, this intense and fascinating drama delves into the lives of three people, illuminating unspoken doubts, intimate tensions, and sensual desires which rise between them like spectres. Presented by the Theatre Cooperative at the Eliz.

FRED'S PICK OF THE WEEK

**L'Elisir d'Amore**

Oct. 12 at 7:30 p.m., Oct. 14 at 2 p.m., and Oct. 16 at 7:30 p.m., at the Emerson Majestic Theatre (221 Tremont St.). Presented by the Boston Academy of Music. Fully staged and sung in Italian with English surtitles. Luscious romantic comedy tells of handsome but poor Nemorino who schemes to win the heart of the beautiful and wealthy Adina. By Gaetano Donizetti. Tickets \$65, \$47, \$33, \$18.

"Walks" begin at 11:30 a.m.; "American Painting and Decorative Arts Walks" begin at 12:30 p.m.; "European Painting and Decorative Arts Walks" begin at 2:30 p.m.; introductory tours are also offered Sat. at 11 a.m. and 1:30 p.m.

Permanent Gallery Installations: "Late Gothic Gallery," featuring a restored 15th-century stained glass window from Hampton Court, 14th- and 15th-century stone, alabaster, and polychrome wood sculptures from France and the Netherlands; "Mummy Mask Gallery," a newly renovated Egyptian gallery, features primitive masks dating from as far back as 2500 B.C.; "European Decorative Arts from 1950 to the Present"; "John Singer Sargent: Studies for MFA and Boston Public Library Murals." Gallery lectures are free with museum admission.

**Museum of Science**

Science Park, Boston. (723-2500), Daily, 9 a.m.-5 p.m.; Fri., 9 a.m.-9 p.m.; Sat.-Sun., 9 a.m.-5 p.m. Admission free with MIT ID, otherwise \$9, \$7 for children 3-14 and seniors.

The Museum features the theater of electricity (with indoor thunder-and-lightning shows daily) and more than 600 hands-on exhibits. Ongoing: "Discovery Center"; "Investigate! A See-For-Yourself Exhibit"; "Science in the Park: Playing with Forces and Motion"; "Seeing Is Deceiving."

Ongoing: "Friday Night Stargazing," Fri., 8:30 p.m.; "Welcome to the Universe," daily; "Quest for Contact: Are We Alone?" daily. Admission to Omni, laser, and planetarium shows is \$7.50, \$5.50 for children and seniors. Current Laser Light shows: *Laser Beastie Boys*, *Laser Ravefest 3*, *Laser Pink Floyd: Dark Side*, *Laser Aerosmith*.

## Other

**A Dynamic Duo: Jules Dassin and Melina Mercouri**

Oct. 4-Oct. 24: The Harvard Film Archive presents a selection of films examining the works of director Jules Dassin and Greek actress and singer Melina Mercouri. Over the course of an eclectic directorial career that spans some forty years, Jules Dassin has worked in Hollywood, London, France, and Greece and has directed film noir, comedy, contemporary versions of the Greek classics, documentaries, and political dramas. Melina Mercouri, an acclaimed performer became Dassin's wife and the star of eight of his films. Call 617-495-4700 for more info. or visit [www.harvarfilmarchive.org](http://www.harvarfilmarchive.org) for a complete schedule.

All festival films will be screened at Harvard Film Archive, located at the lower level of the Carpenter Center for the Visual Arts, 24 Quincy St. Cambridge. Tickets \$7, \$5 students, seniors. Tickets may be purchased at the Harvard Box Office, located at: Holyoke Center Arcade, 1350 Massachusetts Ave., Cambridge, Mass. For ticketing info. call 617-496-2222 or TTY: 617-495-1642.

## Exhibits

**Isabella Stewart Gardner Museum**

28 The Fenway, Boston. (566-1401), Tues.-Sun. 11 a.m.-5 p.m. Admission \$10 (\$11 on weekends), \$7 for seniors, \$5 for students with ID (\$3 on Wed.), free for children under 18. The museum, built in the style of a 15th-century Venetian palace, houses more than 2,500 art objects, with emphasis on Italian Renaissance and 17th-century Dutch works.

Among the highlights are works by Rembrandt, Botticelli, Raphael, Titian, and Whistler. Guided tours given Fridays at 2:30 p.m.

**Blue Man Group**

Charles Playhouse, 74 Warrenton Street, Boston, indefinitely. Curtain is at 8 p.m. on Wednesday and Thursday, at 7 and 10 p.m. on Friday and Saturday, and at 3 and 6 p.m. on Sunday. Tickets \$35 to \$45. Call 426-6912 for tickets and information on how to see the show for free by ushering.

**Sunday in the Park with George**

Through Oct. 20: At the Lyric Stage, 140 Clarendon St., Boston. 1985 Pulitzer Prize winning musical portrait of 19th-century artist Georges Seurat, libretto by James Lapine, music by the great Stephen Sondheim. Tickets \$36-\$25; call 617-437-7172.

**Mamma Mia!**

Tickets available through Nov. 3, at the Colonial Theater (106 Boylston St) through [ticketmaster.com](http://ticketmaster.com). The threadbare plot of the latest British import (built around classic hits by ABBA) is: Young bride Sophie wants her dad to give her away. But her spunky mom — an ex-nightclub disco singer named Donna — doesn't know who he is. So Sophie secretly invites three of mom's old boyfriends (her possible dads) to her wedding. At first, it's a complete disaster. But Donna and her old backup-singer buddies save the day and transform the island into an ABBA-accompanied silver lami adventure that includes scuba-diver dancers, grooms in bridal gowns and choruses in neon shower caps. An engagingly clever sing-along satire of itself, *Mamma Mia!* makes you move, chuckle, and stomp your platform heels.

**Museum of Fine Arts**

465 Huntington Ave., Boston. (267-9300), Mon.-Tues., 10 a.m.-4:45 p.m.; Wed., 10 a.m.-9:45 p.m.; Thurs.-Fri., 10 a.m.-5 p.m.; Sat.-Sun., 10 a.m.-5:45 p.m. West Wing open Thurs.-Fri. until 9:45 p.m. Admission free with MIT ID, otherwise \$10, \$8 for students and seniors, children under 17 free; \$2 after 5 p.m. Thurs.-Fri., free Wed. after 4 p.m.

Mon.-Fri.: Introductory walks through all collections begin at 10:30 a.m. and 1:30 p.m.; Asian, Egyptian, and Classical

The Museum of Fine Arts offers a complete retrospective of Wiseman's 31 documentaries, every Saturday, through April 14, 2002. At the Remis Auditorium Museum of Fine Arts, Boston, 02115 unless otherwise noted. For tickets and more information, call 369-3770. Tickets are \$8, \$7 MFA members, seniors, students.

**Domestic Violence**

Oct. 18 at 6:30 p.m., Oct. 20 at 10:30 a.m.: (2001, 195 min.). The area premiere of Wiseman's latest film, *Shot in Tampa, Florida*, *Domestic Violence* shows the police responding to domestic violence calls and the work of The Spring, the principal shelter in Tampa for women and children. Includes sequences with the police, at the shelter, and with children and parents. A discussion will follow the Sat., Oct. 20 screening, beginning at 2:15 pm.

**THE TECH Page 7**

# COMICS FUN PAGES

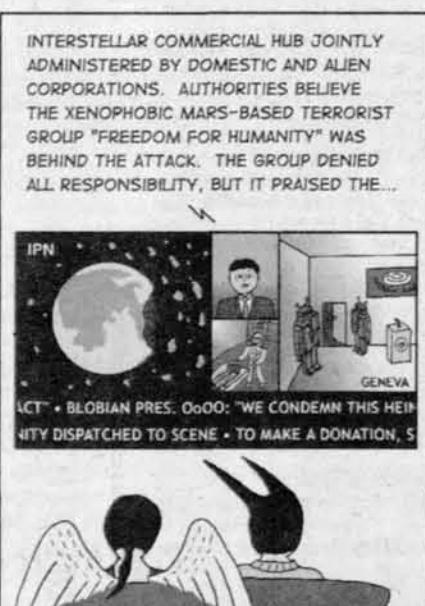
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8

matsoar



**MIT3K** by **ToastyKen**

"Permanent Crescent"

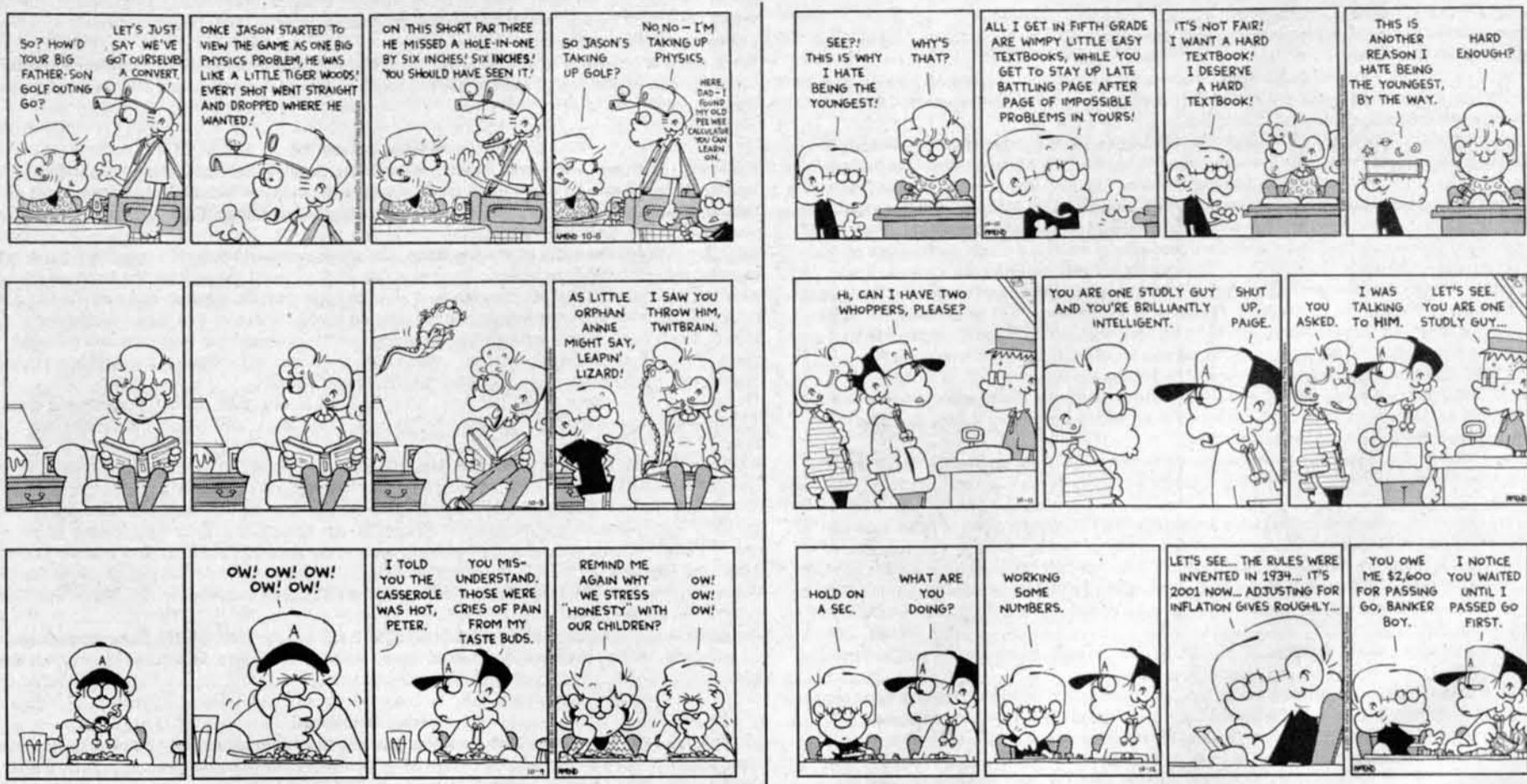
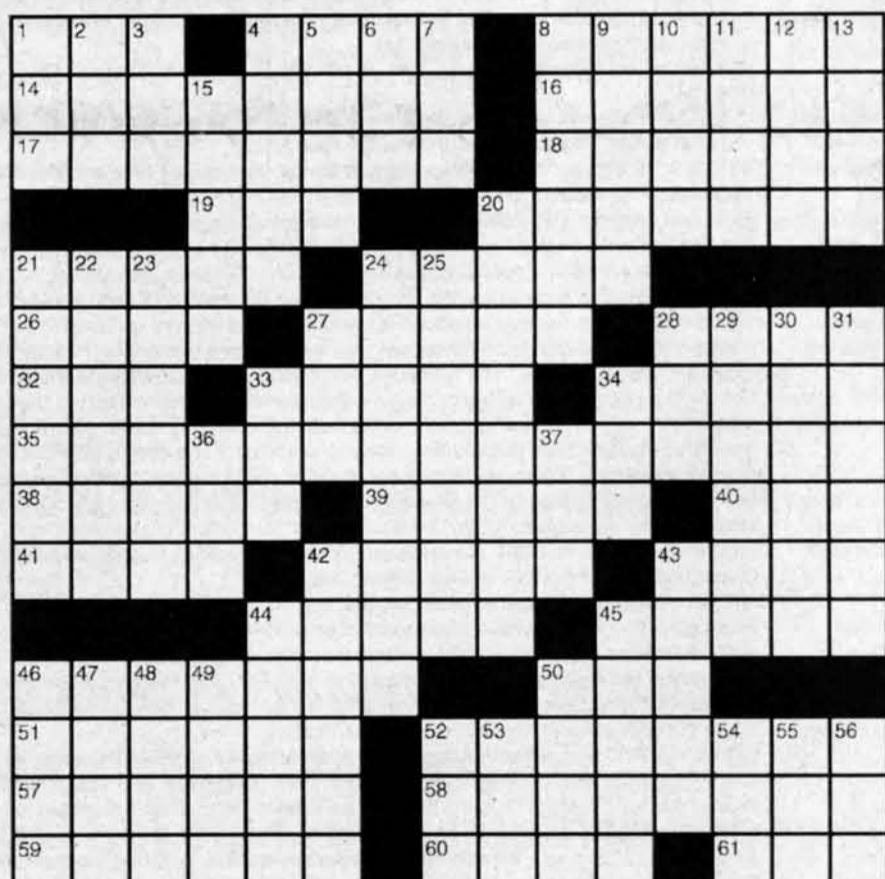


DAMN THOSE CRAZY-ASS RED BASTARDS! WE SHOULD JUST BUILD A GIANT WALL ALL AROUND THEIR WHOLE FRICKIN' PLANET!



**FoxTrot**

by Bill Amend

**Crossword Puzzle***Solution, page 12*

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- ACROSS**
- 1 Fruit drink
  - 4 Birdbrain
  - 8 Drinker's tubes
  - 14 French actor Jean-Paul
  - 16 Inessential matters
  - 17 Compelled
  - 18 Copal and amber
  - 19 Tweedle ending?
  - 20 Beginnings
  - 21 Poet Nash
  - 24 Swiftness
  - 26 Jam-pack
  - 27 Leavening agent
  - 28 Actress Armstrong
  - 32 Keg feature
  - 33 Distributed hands
  - 34 Showplace
  - 35 Dickens classic
  - 38 Locale
  - 39 French city known for textiles
  - 40 "Sliver" author Levin
  - 41 First garden
  - 42 Peevish
  - 43 Prophet
  - 44 Plays' players
  - 45 Repentant
  - 46 Persian governors
  - 50 Ump's cohort
  - 51 Narcotic
  - 52 Modern Romans
  - 57 Folksinger Pete
  - 58 Trump namer
  - 59 Commands
  - 60 Chopping tools
  - 61 Deuce
- DOWN**
- 1 Lincoln or Burrows
  - 2 Cave dwelling
  - 3 Mischievous fairy
  - 4 "Two Women" star
  - 5 Formerly
  - 6 Keatsian work
  - 7 Sign of assent
  - 8 Thoroughfare
  - 9 The way things are going?
  - 10 Get up
  - 11 Rara
  - 12 Port or claret
  - 13 Talk back
  - 15 Internet access device
  - 20 Symbolic configurations
  - 21 Musical stretch
  - 22 Brought honor
  - 23 Novelist DuMaurier
  - 24 Like a loser in musical chairs
  - 25 Chiromancer

- 27 You betcha!
- 28 Bikini piece
- 29 Creepier
- 30 Noisy sleeper
- 31 Pay
- 33 Expire
- 34 Hole in one
- 36 Operate
- 37 Foxy
- 42 Comes to a point
- 43 Bulgaria's capital
- 44 Bring brunch
- 45 Offers to buyers
- 46 Just average
- 47 Mimic
- 48 Even
- 49 Extreme anger
- 50 Speed contest
- 52 Actress Lupino
- 53 Cowboy's nickname
- 54 Expertise
- 55 Original
- 56 Sell-out letters

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Red Cross still needs you!



Reach out a hand - donate blood!

# Events Calendar

Visit and add events to Events Calendar online at <http://events.mit.edu>

## Friday, October 12

- 9:30 a.m. - 3:30 p.m. - **BOOKSALE.** MIT Libraries' Booksale. Books in economics, business, management, political and social science. Proceeds benefit MIT Libraries' Preservation Fund.. free. Room: Dewey Plaza, Rain or Shine. Sponsor: MIT Libraries Gifts Office.
- 12:00 p.m. - 1:00 p.m. - **Eudora Quick Start.** This session shows how to configure Eudora, create messages and address lists, send and receive attachments, and sort incoming email.. free. Room: N42 Demo Center. Sponsor: Information Systems.
- 3:00 p.m. - 4:00 p.m. - **Designing Heterogeneous Catalysts - How Far Are We?** Department of Chemical Engineering, Northwestern University. free. Room: 66-110. Sponsor: Chemical Engineering.
- 3:00 p.m. - 4:00 p.m. - **Mechanical Engineering Seminar.** "On Reduced-Order Models of Distributed-Parameter Systems with Quadratic Nonlinearities". free. Room: 3-133. Sponsor: ME Seminar Series.
- 4:00 p.m. - 5:00 p.m. - **Seminar: The Observational Method - Learning from Projects.** The talk will describe recent developments in the use of the observational method through applications on four major UK infrastructure projects including the Channel Tunnel and the Heathrow Express. It will describe how simple measurements were central to resolving complexity and controlling risk. Application of the method through the technique of "progressive modification" will be explained. This will show how this approach successfully addressed both technical and contractual constraints that otherwise would have prevented the opportunity to achieve substantial cost and time savings.. free. Room: 1-134. Sponsor: Engineering & Environmental Mechanics Group.
- 4:15 p.m. - 5:15 p.m. - **Playing Games with Algorithms: Algorithmic Combinatorial Game Theory.** Refreshments will be served at 3:30 PM in Room 2-349. free. Room: Room 2-338. Sponsor: Combinatorics Seminar. Department of Mathematics.
- 6:00 p.m. - 7:30 p.m. - **Prayer and Praise Night.** Come join MIT-GCF for an evening of prayer and praise followed by dinner.. free. Room: Student Center — 20 Chimneys. Sponsor: Graduate Christian Fellowship.
- 7:00 p.m. - 9:00 p.m. - **Falun Gong Exercise workshop.** The Falun Gong exercise is an easy and effective way to relieve stress and improve physical and mental health. Millions of people in over 40 countries practice these 5 sets of gentle movements.. free. Room: 1-242. Sponsor: Falun Dafa Club.
- 7:00 p.m. - **MIT Anime Club Weekly Screening..** Feature film TBA. Most screenings are subtitled in English. Japanese animation is a unique visual artform for all ages.. free. Room: Rm 6-120. Sponsor: MIT Anime Club.
- 8:00 p.m. - **Lithuanian Chorus: Aukuras.** Styles range from classical, to modern, to popular. free. Room: MIT Chapel. Sponsor: Music and Theater Arts Section.
- 8:00 p.m. - **World Premiere of Shadow Bang.** Visually stunning and delightful, Shadow Bang brings together the electrifying and eclectic Bang on a Can All-Stars and I Wayan Wija, the foremost Balinese puppet master. Together, they create a world of larger-than-life shadows and elaborate theatrical forms that take audience members of all ages on a magical journey with light, shadow and music. Seven performers synthesize the imaginary and the everyday, the traditional and the avant-garde, the East and the West. Bang on a Can All-Stars includes MIT Professor Evan Ziporyn, clarinet. Works performed include new compositions by Professor Ziporyn. Post-concert discussion with Prof Ziporyn and I Wayan Wija.
- The group is in residence at MIT Oct 9-14.. \$15, \$10 MIT faculty/staff, \$5 MIT students and children 12 and under. Room: Kresge Little Theater. Sponsor: Office of the Arts. Music and Theater Arts Section.

## Saturday, October 13

- 1:00 p.m. - **Field Hockey vs. Mt. Holyoke.** free. Room: Barry Turf Field. Sponsor: Department of Athletics.
- 1:00 p.m. - **Men's Soccer vs. WPI.** free. Room: Steibrenner. Sponsor: Department of Athletics.
- 1:30 p.m. - **Football vs. Nichols.** free. Room: Steinbrenner. Sponsor: Department of Athletics.
- 2:00 p.m. - **World Premiere of Shadow Bang.** Visually stunning and delightful, Shadow Bang brings together the electrifying and eclectic Bang on a Can All-Stars and I Wayan Wija, the foremost Balinese puppet master. Together, they create a world of larger-than-life shadows and elaborate theatrical forms that take audience members of all ages on a magical journey with light, shadow and music. Seven performers synthesize the imaginary and the everyday, the traditional and the avant-garde, the East and the West. Bang on a Can All-Stars includes MIT Professor Evan Ziporyn, clarinet. Works performed include new compositions by Professor Ziporyn. Post-concert discussion with Prof Ziporyn and I Wayan Wija.
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- 5:30 p.m. - 7:00 p.m. - **Screening of DOING TIME DOING VIPASSANA.** Winner of the Golden Spire award at the 1998 San Francisco International Film festival and winner of a 1998 NCCD PASS Award of the American National Council on Crime and Delinquency. This extraordinary documentary takes viewers into India's largest prison - known as one of the toughest in the world - and shows the dramatic change brought about by the introduction of Vipassana meditation.

- This is the story of a strong woman named Kiran Bedi, the former Inspector General of Prisons in New Delhi. It tells how she strove to transform the notorious Tihar Prison, once a hellhole of crime, and turn it into an oasis of peace. It is a story of an ancient meditation technique, Vipassana, which helps people to take control of their lives and channel them towards their own good and the good of others. But most of all it is the story of the prison inmates who underwent profound change, and who realized that incarceration is not the end but possibly the beginning of a new life.. free. Room: 6-120. Sponsor: Sangam.
- 8:00 p.m. - 11:00 p.m. - **Patrol.** Shoot your friends! Travel to strange, new classrooms; meet interesting, unusual people; and kill them. A team game of shoot-em-up; guns provided.. free. Room: Building 36, First Floor. Sponsor: Assassins' Guild, MIT.
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Events Calendar appears in each issue of *The Tech* and features events for members of the MIT community. *The Tech* makes no guarantees as to the accuracy of this information, and *The Tech* shall not be held liable for any losses, including, but not limited to, damages resulting from attendance of an event. Contact information for all events is available from the Events Calendar web page.

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## Sunday, October 14

1:00 p.m. - 5:30 p.m. - **Ballroom Dancing Workshops.** Beginner ballroom dance steps will be taught. There will also be a new focus on developing techniques as well. Open to everyone. No experiences necessary. No partners required.. Visit our website for pricings. Room: Visit our website for venues. Sponsor: Ballroom Dance Club.

2:00 p.m. - **World Premiere of Shadow Bang.** Visually stunning and delightful, Shadow Bang brings together the electrifying and eclectic Bang on a Can All-Stars and I Wayan Wija, the foremost Balinese puppet master. Together, they create a world of larger-than-life shadows and elaborate theatrical forms that take audience members of all ages on a magical journey with light, shadow and music. Seven performers synthesize the imaginary and the everyday, the traditional and the avant-garde, the East and the West. Bang on a Can All-Stars includes MIT Professor Evan Ziporyn, clarinet. Works performed include new compositions by Professor Ziporyn. Post-concert discussion with Prof Ziporyn and I Wayan Wija.

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## Monday, October 15

12:00 p.m. - 1:30 p.m. - **Mac Tech Partners.** Join with Macintosh users who - officially or otherwise - help others within their departments make more productive use of computers.. free. Room: N42 Demo Center. Sponsor: Information Systems.

4:00 p.m. - 5:00 p.m. - **"Stable manifolds and Kahler-Einstein metrics".** free. Room: MIT Room 2-143. Sponsor: Differential Geometry Seminar. Department of Mathematics.

4:00 p.m. - 5:00 p.m. - **A. D. Little Lecture in Physical Chemistry—I.** The Nature and Significance of Protein Folding. free. Room: MIT Room 6-120. Sponsor: chemistry headquarters. A. D. Little, Inc..

4:00 p.m. - 6:00 p.m. - **Leaders in Technology Lecture.** A Century of Innovation: 3M's Contribution to Viewing Information in the Internet Age

A reception will follow the lecture.. free. Room: MIT Faculty Club. Sponsor: Office of Corporate Relations/ILP.

4:00 p.m. - 5:00 p.m. - **EECS Colloquium Series.** Structure and Interpretation of Classical Mechanics. free. Room: 34-101 (Edgerton Hall). Sponsor: EECS.

4:00 p.m. - 5:00 p.m. - **Continuum Seminar Series: Towards an Efficient Meshless Computational Technique: The Method of Finite Spheres.** Abstract: In the traditional finite element technique, a great deal of effort is associated with the generation of a good quality mesh. Moreover, the simulation and analysis of certain types of problems (like dynamic crack propagation or machining) require an expensive remeshing operation. For these reasons there is much interest in the development of so-called meshless techniques. We have introduced the method of finite spheres as a truly meshless technique with the goal of achieving computational efficiency and reliability. The efficiency of such a technique depends on the proper choice of the computational subdomains, the interpolation functions, the techniques used to impose the boundary conditions and perform numerical integration. In this presentation all these issues will be discussed in the context of the method of finite spheres.

The pure displacement-based method is observed to "lock" when incompressible or nearly incompressible deformations are encountered. Stable and reliable displacement/pressure mixed interpolation schemes will be presented that overcome this problem. I will conclude with an interesting application of a special version of the method of finite spheres, using point collocation, to virtual surgery simulation.. Room: 3-370. Sponsor: Mechanical Engineering Dept..

5:00 p.m. - 7:00 p.m. - **MIT Teach-Ins on the Crisis.** Middle Eastern Perspectives Discussion led by Professor Joshua Cohen, Chair,

MIT Department of Political Science (Informal dinners for interested students, faculty and staff will follow each Teach-In) Sponsored by the MIT Center for International Studies in cooperation with the Political Science Department, Boston Review, Foreign Languages and Literatures Section, Science, Technology, and Society Program, Comparative Media Studies Program, Economics Department, and the Dean's Office, School of Humanities, Arts, and Social Sciences.. free. Room: MIT Bldg. 26, Room 100. Sponsor: Center for International Studies.

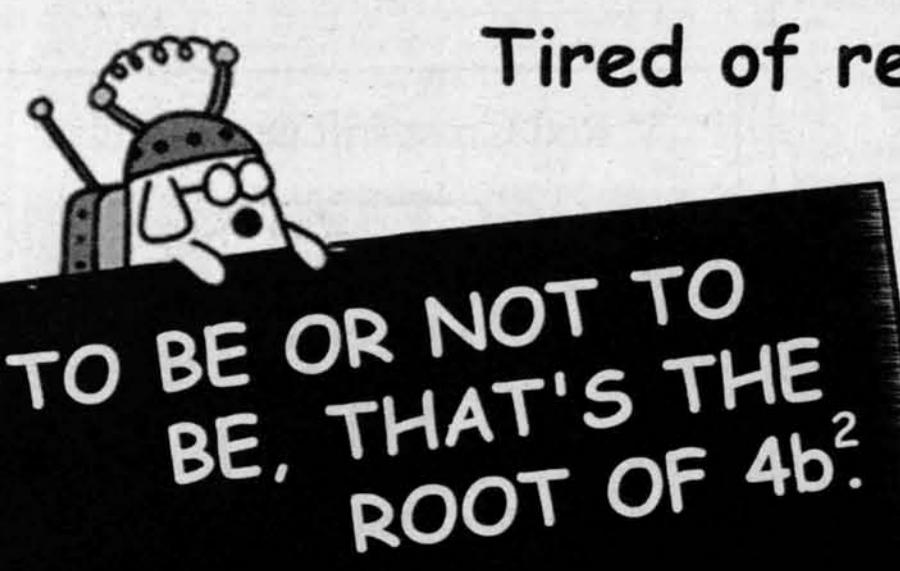
7:00 p.m. - 9:00 p.m. - **Nobel Peace Prize Winner Speaks on "The Philosophy of Conflict Resolution".** Ford/MIT Nobel Laureate Lecture featuring Mr. John Hume who was awarded the 1998 Nobel Peace Prize for "...efforts to find a peaceful solution to the conflict in Northern Ireland.". free. Room: Kresge Auditorium. Sponsor: Community Services Office.

8:00 p.m. - 12:00 a.m. - **Monday Night Football at the Ear.** Watching football at the Ear makes Dennis Miller a little more tolerable. The Thirsty Ear Pub is located in the Ashdown House basement. Enter through the courtyard. Hours: Monday: 8 pm - 12 am, Tuesday - Thursday: 7 pm - 1 am, Friday: 4 pm - 1 am. Must be over 21. Proper ID required.. free. Room: The Thirsty Ear Pub. Sponsor: The Thirsty Ear Pub.

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# Fall Festival Funding Increases

Student Life Office Donates more than \$100,000 to the Festivities

**By Brian Loux**  
ASSOCIATE NEWS EDITOR

Preparations are complete for one of the largest Fall Festivals in MIT history, which begins this evening.

This Fall Festival received significant funding from the office of Dean for Student Life Larry G. Benedict.

"Dean Benedict and other administrators gave us a lot, though none more than Benedict," said Nadja M. Yousif '04, Social Chair for the Class of 2004. "People are trying to make Fall Festival as big as Spring Weekend. The Residential Life and Student Life Programs office and our committee wanted this to be big, which was why they gave so much."

#### Benedict funds Fall Festival

Benedict said that his department donated \$100,000 to Fall Festival and other special activities around campus. Benedict said that this fall's event is larger because of the efforts of people like Fall Festival committee chair Bryan D. Schmid '03 and Interfraternity Council President Rory P. Pheiffer '02, who began working on this event last spring. "They and others have been actively fundraising and have been very successful," he said.

Tracy F. Purinton, Assistant Dean for Student Activities, and Linda D. Noel, Program Coordinator for Student Activities, also helped to coordinate the weekend's activities.

#### Events may rival Spring Weekend

Organizers hope that this Fall Festival will be equal in magnitude to Spring Weekend. "I plan to ask for this and even more to be permanent additions since I am convinced that student groups and activities

need more funding than they are currently receiving," Benedict said.

"We also hope that students will be interested in planning more large events at MIT because of this year's festival," said Sudeb C. Dalai '02, the Class Council President for the Senior Class.

With the traditional Festival fare such as activities on Kresge Oval and Sigma Kappa's Late Night, a free concert has been added to this year's lineup.

The idea for a concert was spurred by the Class of 2002 almost half a year ago. "We were inspired last year by the Naughty by Nature Concert for Humanity and its ability to raise so much money for charity," Dalai said. "We began planning a concert for the fall, but we later converged with Bryan Schmid on the idea of a concert for Fall Festival. We started fundraising much like [Habitat for Humanity] did with the Naughty by Nature concert, and we had a lot of help from the administration."

The entire plan for Friday's concert changed after September 11. The line up was originally expected to draw headliners such as Wyclef Jean and Eve, but with the threat of terrorism looming, artists became reluctant to perform in cities. The council was able to nab two local bands, Missing Joe and One People, made the concert a free event, and changed the venue to La Saia de Puerto Rico in the Student Center. "We decided that it would be better to assist the [New York firemen] relief efforts," Dalai said. "We are raising money for a good cause that is of immediate need."

The 2004 Class Council had originally intended to plan its own events, but decided to team up with the Fall Festival committee. "We were originally planning a

pregame tailgate party before the homecoming game," Yousif said, "but we realized it would be easier if we joined with Fall Festival. The class donated money to the fund, which then gave us access to larger funding for our planned events." The Class of 2004 worked with MacGregor House and Delta Tau Delta to create Saturday's Oktoberfest festivities.

Sigma Kappa's late night has not been affected by the other events. The comedic talent show is still run solely by the sorority, and the proceeds will be donated to Alzheimer's research.

#### Weekend features football game

This weekend also marks the homecoming football game. MIT's Engineers hope to turn their season around with their first conference win this Saturday at the homecoming game. MIT, now 1-5 for the season, has not yet been able to capitalize on a promising win early in the season against Massachusetts Maritime Academy.

"Offensively we must control the ball and decrease our own mistakes," said Coach Dwight E. Smith, commenting on his plans for this weekend's game. This week the Engineers face a strong Nichols College team with a record of 3-2. Nichols remains undefeated in the New England Football Conference.

"The key to stopping their offense is to contain their All Conference QB," said Coach Smith. "Last year we beat Nichols keeping them out of the Championship game. They will be looking to keep their record perfect in the division and we will be looking to spoil their chances."

The game will begin at 1:30 Saturday in Steinbrenner Stadium.

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**TICKETS!**

**The Council for the Arts at MIT will be handing out special passes for BSO tickets from a booth in Lobby 10, from 10am - 4pm on:**

**Wednesday, October 3**

**Thursday, October 4**

**Wednesday, October 10**

**Thursday, October 11**

**Tuesday, October 16**

**Wednesday, October 17**

**Thursday, October 18**

**Students must present a valid MIT student ID, and may only present one ID each**

## "PROCESS WITHOUT PEACE IN ISRAEL/PALESTINE"

**Tuesday, October 16, 2001**

**4:30 - 6:30 p.m.**

**E51-095**

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# Atom Cooling Enables Prizewinning Work

Super-Cooling Atoms Key to Ketterle's Nobel Research on Bose-Einstein Condensates

Nobel, from Page 1

mentally produce BECs was that of developing the technology to supercool atoms down to micro and nano Kelvins.

Pritchard best described the magnitude of this problem in the following synopsis: The average room temperature is about 300 Kelvins. If you decrease this temperature by a factor of ten, you reach the temperature of interstellar space. The temperature needed to produce BEC is still more than a million times less than that, where the average velocity of each atom is measured in millimeters per second.

#### Lecture sheds light on BECs

Ketterle gave a lecture on Thursday evening in 10-250 to an audience packed with professors, students, and other members of the MIT community.

"I'm glad to see the 'usual' audience at our physics colloquium," joked Kastner in response to the large crowd.

Ketterle began his presentation by describing Bose-Einstein Condensate as "the coldest matter in the

universe" which is "matter made of matter waves."

Essentially, when BECs form, the wavelengths of these atoms begin to "step in unison." This formation of BEC in a gas was realized in 1995 by Ketterle through the combined techniques of laser cooling, developed highly by Pritchard, and evaporative cooling through a magneto-optical trap, developed by professors Thomas J. Greytak and Daniel Kleppner. The method of forming BEC was later improved by using a "cloverleaf trap," which is now the method by which MIT produces most of the BEC used in experiments.

At the time, Ketterle and his MIT lab were in a race to form BEC with the Boulder group scientists with whom he shares the Nobel Prize.

"The race went on, and it was the most exciting race of my lifetime," said Ketterle.

Although the Boulder lab was the first to form BEC, Ketterle and his lab also formed BEC on September 20, 1995.

"We worked the whole night and I had to teach 8.012 the next morning," said Ketterle.

Ketterle's major accomplishments lay not only in forming BEC, but in researching the qualities of the condensate. Using two separate BECs which were allowed to expand into one another, he obtained very clear interference patterns which showed that the condensate contained entirely coordinated atoms. Ketterle also produced a "laser beam" using matter instead of light, which was made of a stream of small BEC drops falling under the force of gravity.

"BEC is about the creation of atoms with laserlike properties," said Ketterle.

#### BEC research continues

More research is currently being

conducted on BECs. "We are now able to use optical traps as a transport mechanism for BECs," Ketterle said.

He described the practical applications of this discovery as being twofold. First, he elucidated the value of this research on its fundamental level to understand nature. Secondly, BECs are teaching scientists how to manipulate atoms with an unprecedented amount of precision, which may one day be the building blocks for fields such as nanotechnology and quantum computation.

"The field has explosively grown and it's brimming with excitement," said Ketterle. "I think there is more to come."

#### Success has many fathers

Prior to Ketterle's presentation, he was introduced by three other members of the physics department. The recent spotlight on Ketterle brings to light the many accomplishments and close-knit relationships between many members of the physics department faculty.

"Success has many fathers and some grandfathers," Kleppner said. "I am happy to be a grandfather."

"An awful lot of the route to BEC was paved here at MIT — first by the work of [Professors] Kleppner and Greytak in evaporative cooling and also by the contributions of my group in laser cooling," Pritchard said.

"I feel I was privileged to finish what these people have started," Ketterle said.

Pritchard has had six proteges go on to become Nobel laureates.

"Dan [Pritchard] began the establishment of what is now a great school of atomic physics," said Kleppner. "To me, this example of mentoring is in the very best tradition of science, teaching, and hopefully of MIT."

Pritchard saw much potential in Ketterle when he invited him to work with him in 1990. Pritchard withdrew from the field so that Ketterle could do research in the field without a competing faculty member.

"The reason Ketterle was successful is because he's the only scientist I've ever met who is 'A+' at everything," Pritchard said. "Your most important A+ ability is your value as a colleague and friend," said Pritchard to Ketterle at the end of his introduction.

"I can't imagine anyone better suited to represent this discovery than Wolfgang, who not only has a passion for science, but can convey it beautifully," Kastner said.

In the past 30 years, the Physics department has produced five nobel prize winners.

#### Seven laureates come from MIT

In total, seven of this year's announced Nobel Prize winners have direct connections with MIT. Five of the laureates are alumni, one is a former professor, and one is a current professor.

K. Barry Sharpless was an MIT chemistry professor for 17 years until he joined Scripps Research Institute in 1990. He was chosen to share the 2001 Nobel Prize in chemistry with two other researchers. After leaving MIT, Sharpless and his wife contributed \$30,000 to establish a Undergraduate Research Opportunities fund for students in organic chemistry.

Leland H. Hartwell Ph.D. '64 shares the 2001 Nobel Prize in physiology or medicine for his discoveries of key regulators of the cell cycle. Two of the three Nobel Prize honorees in economics, George A. Akerlof and Joseph E. Stiglitz, both earned PhDs from MIT in economics in 1966.

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# MIT May Punish First Offense

Must Learn of Violation During Transport to Reduce Punishment

## Alcohol Policy, from Page 1

for multiple offenses can include fines, formal complaints to the Committee on Discipline, and notes to parents.

### Students still reluctant to get help

Yue said that MIT students continue to avoid calling for medical assistance for alcohol incidents. "Every weekend there are probably five or six incidents in which students do not go to Medical when they should because of fear of getting in trouble," Yue said. MIT keeps track of the names of underage people taken to the medical center.

Under the new policy, first time offenders are no longer issued an MIT alcohol citation. The first offense will be treated as a medical rather than disciplinary matter. However, if MIT learns of underage drinking by some means other than a medical call, such as a noise complaint, "there may be disciplinary sanctions for the first event," said Assistant Dean Carol Orme-Johnson, of the office of Student Conflict Resolution.

"Once students see how minimal the penalties are I don't think they will take the risk not to call [MIT] Medical," Orme-Johnson said.

However, Yue thought that students might still take their chances when reporting an alcohol offense, because the policy is not completely confidential.

"Sanctions for second offenses, which are quite rare, are designed to get the student to take the issue seriously," Orme-Johnson said. However, Yue said that second time offenses are often not reported due to the stiffer punishments.

"It is really about responsibility and accepting the consequences for your actions. We want a student, or living group who makes one mistake to learn from that experience and not repeat it," said Dean for Student Life Larry G. Benedict. "A student or house making a second violation, however, will be held responsible for that behavior."

### MIT forms alcohol safety group

Some 600 students signed the petition calling for anonymous medical transport last year. In response, MIT formed the Alcohol Education Work Group.

"Confidential medical transport was a small part of a scheme to address alcohol issues on campus," said Undergraduate Association Vice President Allison L. Neizmik '02. "We went to the administration with our request for

it, but we didn't realize that there was a bigger picture."

### ILGs still face harsh penalties

In the case of fraternities, sororities, and independent living groups, Yue said, houses do not fear MIT as much as they fear the Cambridge Licensing Commission or the Boston Licensing Board. The two licensing groups can enact severe punishments for alcohol violations, including eviction.

Although MIT's sanctions for living groups have not changed, they are now officially stated by the office of Residential Life and Student Life Programs.

"We have penalized living groups that violated the policy before, and these sanctions are in line with the sanctions we took over the last year. Now houses will know what to expect," Benedict said.

However, IFC Judicial Committee chair Thomas B. Fisher '02 believes that the new policy represents a significant step in recognizing self-governance of fraternities, sororities, and independent living groups.

"The Dean of Student Life may defer to IFC and not impose sanctions on a house if he determines that the sanctions imposed by IFC are sufficient," Fisher said.



KATHY CHEN—THE TECH

**David Jones**, Nature magazine's "Daedalus," shows off his chemistry experiment during the Ig Informal Lectures on Saturday, October 6 in 26-100. The Ig Nobel Prizes honor people whose achievements "cannot or should not be reproduced."

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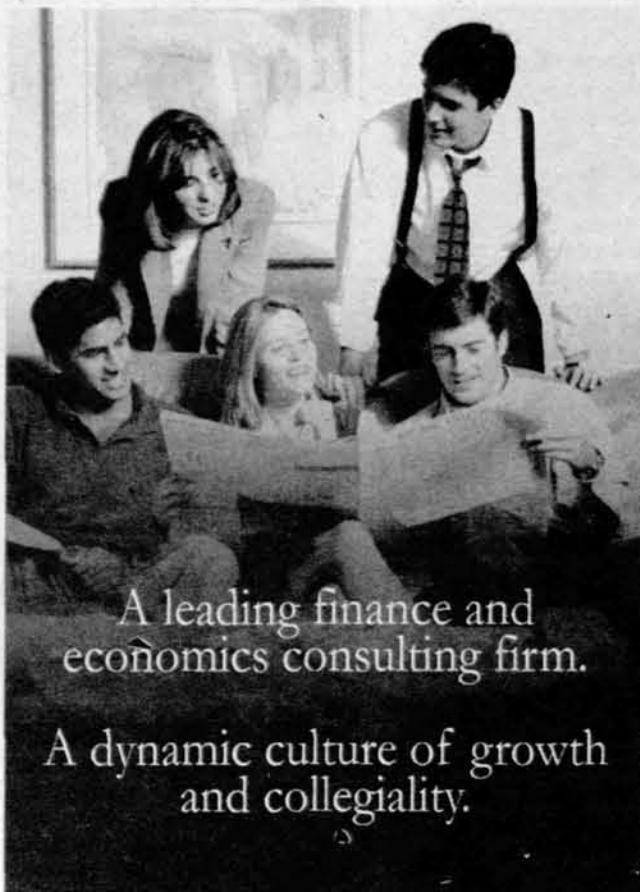
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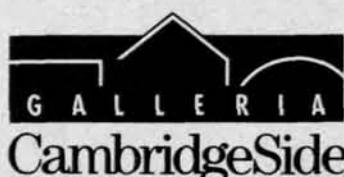
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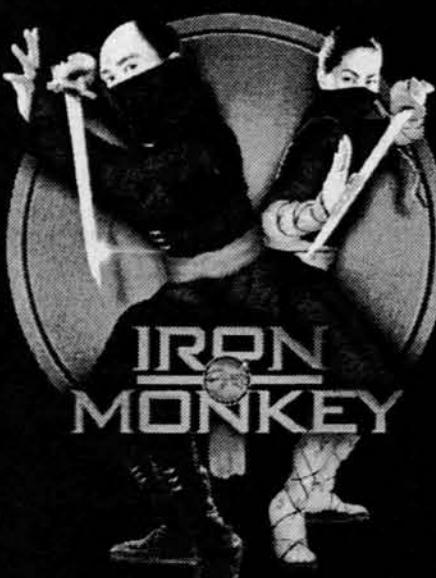
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# Harsh Punishment for Chi Phi Follows 2001 Rush Violations

Story, from Page 1

had been planning to speak to Assistant Dean and Director for FSILGs David N. Rogers regarding the sanctions, but thought that Rogers might be involved in the appeals process.

Dancy also said that a Chi Phi brother spoke to Dean for Student Life Larry G. Benedict regarding the sanctions. While Benedict said that he had discussed the fine and was aware of Chi Phi's effort to appeal, he said he was unaware of the summer contact and rush sanctions.

However, Benedict expressed concern over the possible impact of rush sanctions for 2002. "We enter a very unknown transition next year," he said.

Dancy said that Chi Phi is currently focusing on the appeals process rather than on ways to successfully run rush next year despite the sanctions.

### Violations ended rush early

Chi Phi's first major violation of rush rules resulted from problems with wake up times. On two consecutive days, Chi Phi listed all fresh-

man wake up times as 10 a.m., regardless of the actual time that each freshman gave to Chi Phi. This practice is illegal under IFC rules.

Chi Phi's other major violations regarded jaunts, including a harbor cruise where freshmen returned late, and a jaunt to the activities midway where return times were not entered correctly.

As a result of this final jaunt violation, the IFC Rush Committee decided to close down Chi Phi's rush. There had been complaints filed against Chi Phi by over 17 IFC member houses.

To the MIT Student Body:

The Council for the Arts at MIT is still sponsoring a free ticket program in conjunction with the Boston Symphony Orchestra.

However, the BSO changed the method of ticket distribution this year, introducing the "College Card" which allows MIT students a chance at free tickets to a specific number of concerts, the first of which is on October 26.

The BSO Sent us 1,050 "College Cards" which were immediately snapped up at our booth at Lobby 10.

We are currently talking with the BSO to resolve the problem of ticket access for the remainder of the student body.

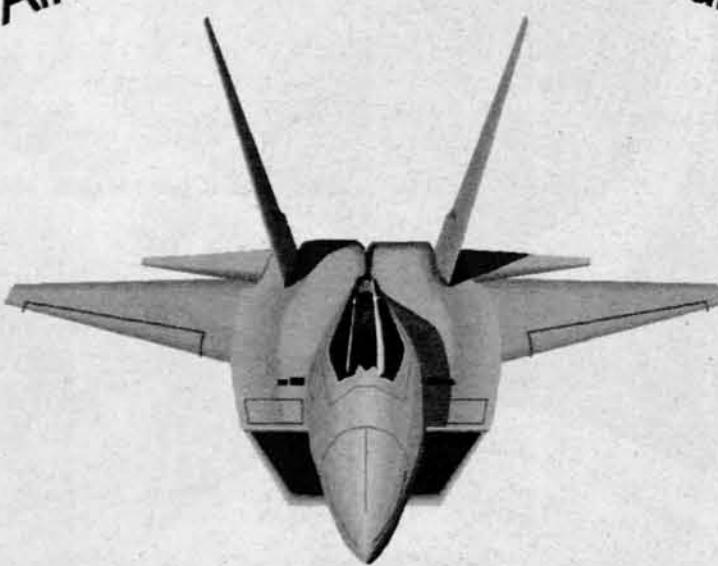
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Hale, from Page 1

the dozens and he did. Once I asked him about this, and he said, 'the problem is that many of the languages I've learned are extinct, or close to extinction, and I have no one to speak them with!'"

Samuel Jay Keyser, professor of linguistics, emeritus, at MIT, as well as friend and colleague of Hale for over 20 years, spoke of Hale's per-

spective on his studies. "Ken viewed languages as if they were works of art. Every person who spoke a language was a curator of a masterpiece," Keyser said.

Hale is survived by his wife, Sara; brother, Stephen; and by four sons: Whitaker, Ian, Caleb, and Ezra. A memorial service for Hale will be held at MIT on Thursday, November 1 at 2 p.m., in the Wong Auditorium. Burial will be private.

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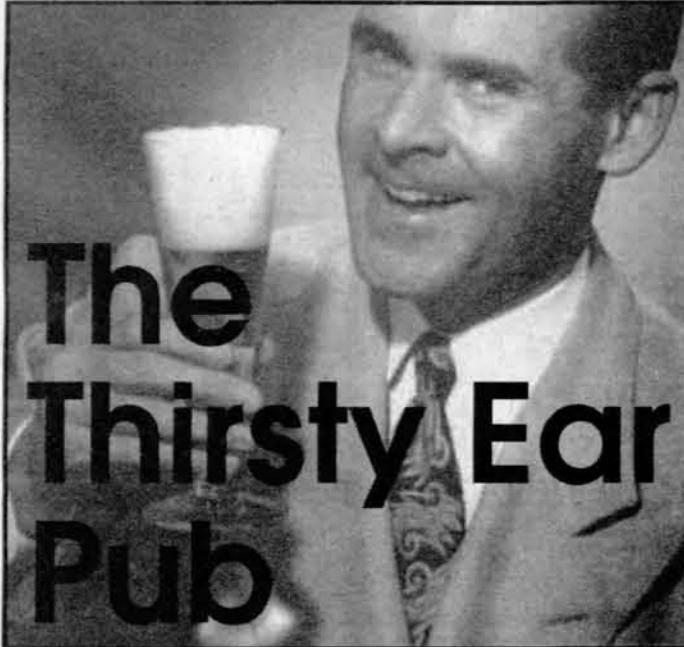


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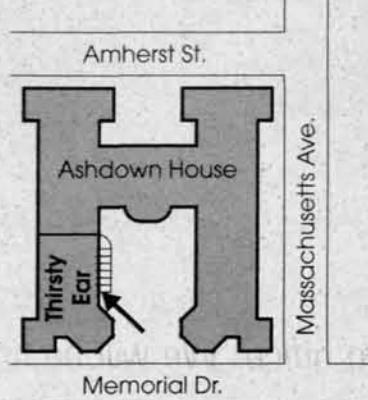
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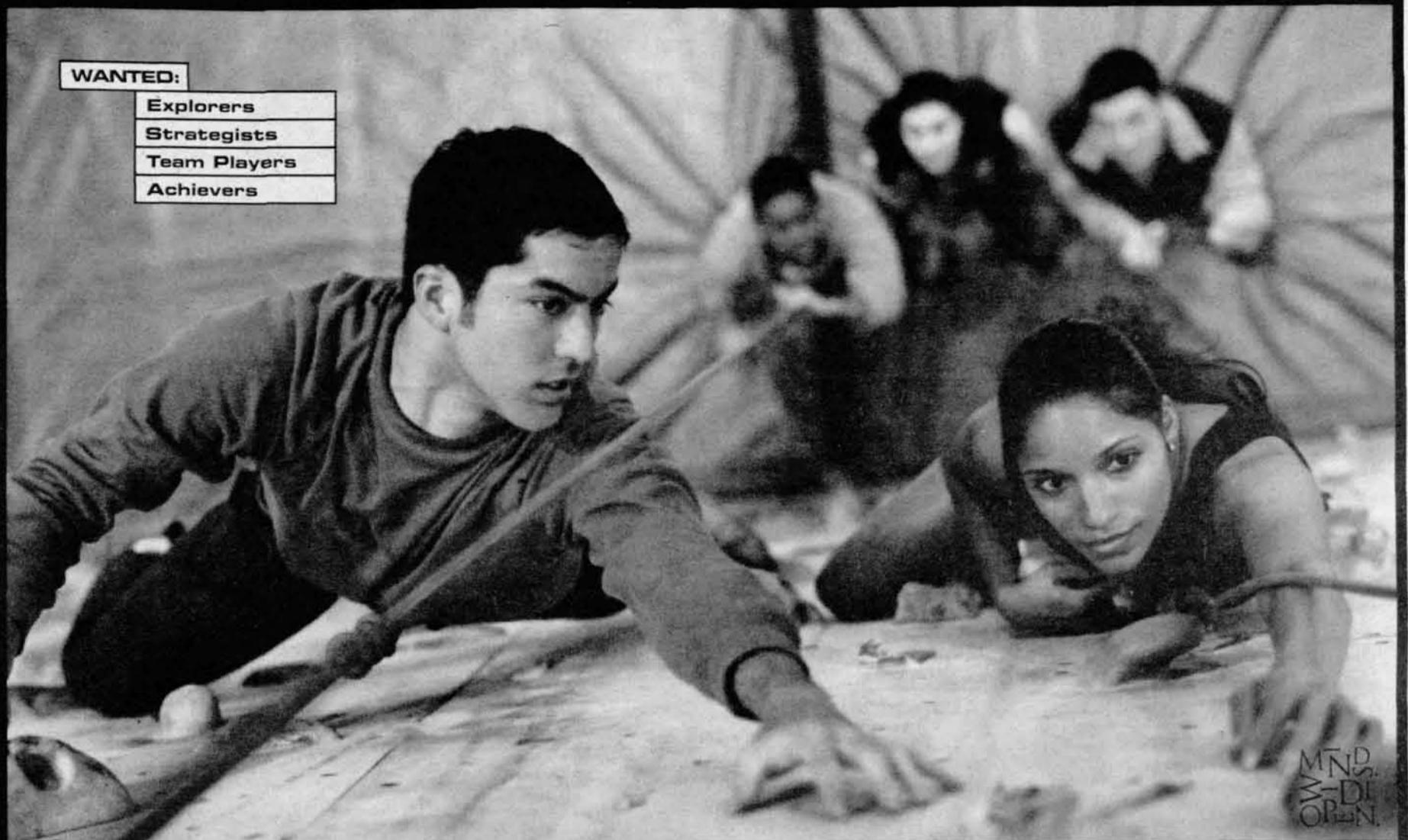
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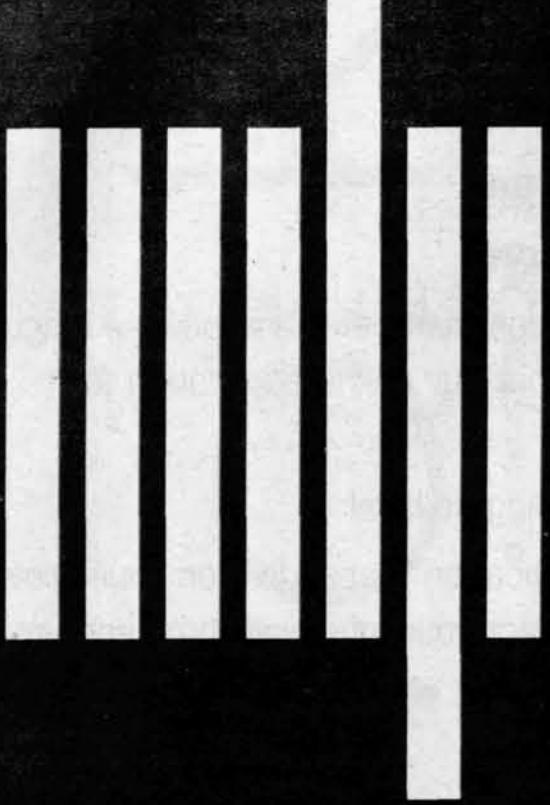
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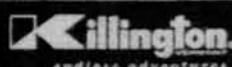
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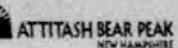
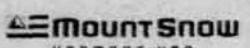
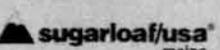
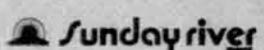
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# SPORTS



Philip M. Deutsch '04 looks for an open receiver during overtime in last Saturday's home game against Bridgewater State. Deutsch connected with Gregory N. Nelson '02 for a touchdown. MIT lost 14-13.

## Football Falls in Overtime, 14-13

### Tight Defensive Match Comes Down to Extra Point After Touchdown

By Thomas Kilpatrick and Spencer Cross

TEAM MEMBERS

In the most emotional and evenly matched game of the season, the Beavers sparred against the defending conference champion, Bridgewater State.

The MIT offense faced two enemies: Bridgewater State and the elements. The Beavers were greeted by a monsoon during warm-ups, which slowed to a drizzle by kickoff. But 30+ mile per hour winds and the wet field prevented establishment of the passing game, as only two passes were completed both to Nelson. Quarterback Deutsch ironically made his biggest contribution on the ground, as the Beavers' leading rusher with 90 yards. He scored the sole touchdown in regulation, on a scintillating 60-yard sprint in the 3rd quarter. Tailbacks Kale D. McNaney '05 and Temitope O. Sonuyi '05 added 77 and 73 yards, respectively. They would be quick to point out that that the offensive linemen Matthew J. Krueger '05, Fernando Ceballos '02, Bradford S. Lassey '03, Justin M. Nelson '04, Keith G. Reed '04 and end Keith V. Battoc-

chi '02 were controlling the line of scrimmage, and paving the way for 268 total rushing yards.

As the score would indicate, it was a defensive contest. MIT held Bridgewater to 265 yards on 69 plays (3.8/play) of total offense. The Beavers got great performances from defensive ends Thomas J. Hynes '02 and Lars A. Gronning '03, who combined for 30 tackles and two forced fumbles, which were recovered by tackle Spencer M. Cross '05 and linebacker Jeremy R. Arnold '03. The defensive backs only allowed Bridgewater to complete four passes for 33 yards. Safety Mark D. Boudreau '05 had five unassisted tackles. Cornerback Corey D. Carter '03 had a touchdown-saving tackle in the first half when he caught Bridgewater tailback Andrew Brems from behind. Carter also broke up a pass and levitated a Bridgewater would-be tackler while blocking on a Nelson punt return.

After an agonizing fourth quarter where both teams' defenses bunkered down and prevented each other from entering the red zone, the game went into overtime with the score tied 7-7. If NCAA football game enters overtime, each time has

one possession to score; whoever gets more points wins.

MIT lost the coin flip, and was thus forced to take possession first. After three plays failed to convert a first down, the Beavers faced fourth and six from the Bridgewater 21-yard line. Quarterback Philip M. Deutsch '04, who had struggled throwing in the inclement weather, rolled out right and threw a perfect pass to wide receiver Gregory N. Nelson '02 in the corner of the end zone. Nelson beat double coverage and leapt, making a spectacular catch to put the Beavers up 13-6. Unfortunately, they failed to convert the point-after try.

When Bridgewater received the ball, they drove to MIT's 8-yard line before similarly facing fourth down. They also completed a pass into the corner of the end zone, tying the score. However, they converted the extra point to win the game, 14-13, dropping the Beavers to 1-5 for the season.

After resting over Columbus Day weekend, MIT football gears up this week for NEFC Boyd division-leading Nichols College. The Beavers will try to play spoiler in the 1:30pm home contest this Saturday.

## Heavyweight Crew Wins Open Four Race in Ohio

By Brian Kelleher Richter

TEAM MEMBER

The MIT varsity heavyweight crew team returned to Boston with gold medals in hand after winning the Open Fours event at the Head of the Ohio regatta in Pittsburgh last Saturday. The Beavers also competed in an Open Eights race and a 500 meter sprint in an Eight. The Head of the Ohio is the second largest headrace in the United States, surpassed only by the Head of the Charles in number of competitors.

The Open Four event was the Beaver's second race of the day. The team's top eight rowers split into two fours after hot-seating from the eights sprint.

Coach Gordon Hamilton was very pleased with the effort. "It was gratifying to finally capture the trophy, having come in second once and third numerous times," said Hamilton.

The race marked the first time the members of the winning four—Nicholas K. Abercrombie '03 (stroke), Joshua G. Kubit '03, Collins P. Ward '03, Brian K. Richter '02, and Jonathan L. Berkow '03 (cox)—had rowed together in a four all fall. It was also the Beaver's first race of the season. MIT (15:35) pounded out a stunning twenty-six

second margin over second-place University of Pittsburgh (16:01), who was rowing on their home course.

MIT's second four—Matthew G. Richards '04, Matthew C. Waldon '03, Michel A. Rbeiz '04, Alan M. Heins '02, Sandra M. Chung '04 (cox)—managed to finish sixth in the field of seventeen boats, despite several lingering colds. They finished only one-minute behind the winning four in a time of 16:35.

MIT did not fare as well in the Open Eight head race, which they hot-seated into immediately after the fours race. The Beavers finished tenth out of eleven crews in that race, due in part to exhaustion from the previous race and also missing confusion stemming from missing the official start-time. The team's focus at the regatta, however, was on the Open Four, as they plan to make that the priority boat for the upcoming Head of the Charles regatta.

The Beaver Crew now looks forward to the New Hampshire State Championships this coming weekend as their final preparation before the Head of the Charles in two weeks.

"My immediate goal and that of my boat is to win a medal in the Championship Four event at the Head of the Charles," Kubit said.

## MIT Sweeps Tournament

### Volleyball Tops Conference

By Paul Dill

TEAM COACH

After having their 16 match winning streak broken last week against Springfield College, MIT bounced back and won five straight matches this past weekend to win the Eastern Connecticut State University Tournament for the second straight year.

The Engineers did not lose a single game as they rolled (3-0) over Lasell College, Plymouth State College, Endicott College, Babson College and hosts Eastern Connecticut State University to earn the championship trophy.

Middle hitter Lauren E. Frick '03, had a strong weekend anchoring the offense with 33 kills, while Amy W. Mok '02 served up a team high of 16 service aces for the tournament.

Co-captain Barbara J. Schultze '02 earned All-Tournament Team honors, and setter Christina Almodovar '02 was named the tournament's Most Valuable Player.

This was the fourth straight tournament that the Engineers have won this season, pushing their record to a staggering 23-2 for the season. MIT remains the number one in the New England region and number 20 in the Division III national ranking.

## Cross Country Team Leads League Polls

Jennifer DeBoer

TEAM MEMBER

The MIT women's cross country team upset Wellesley on Friday to jump to the top of the conference polls.

MIT scored five of the top eight positions to edge out Wellesley, 26-29. Wellesley sophomore Lindsay LaRose won the 5k with a time of 19:30. MIT took second and third with Martha W. Buckley '04 (19:32) and Julia C. Espel '05 (19:54).

The spread between the first MIT finisher and the fifth was 1:06, much smaller than in recent meets and a factor in the team's victory, according to Coach Paul Slovenski.

Veronica A. Andrews '05, Lynn K. Kamimoto '05, and Margaret F. Nervegna G "pack attacked" for places six through eight, rounding out MIT's scoring runners.

The win over Wellesley comes after last Friday's unexpected victory in the four-team "Mini-Newmac" held at Franklin Park. The team finished with a total time of 101:52, the third fastest time ever for their home course.

Before the Franklin Park meet, the Engineers were ranked fourth in the New England Women's and Men's Athletic Conference. After the win over number two ranked Coast Guard, Mount Holyoke, and Smith College, MIT came out just behind Wellesley.

"This was my proudest moment with the women's cross-country program," said Slovenski. "That was a big deal knocking off three respectable foes at once, something MIT hasn't done in quite awhile."

While Slovenski was very pleased with the team's performance at the Franklin Park meet, he knew the next week's meet would be a better measure of the team's stance within the conference.

"Our depth is going to be our strength heading into this Friday's classic old fashioned head to head dual meet versus arch-rival Wellesley, holders of the number one spot in the NEWMAC for the past three fall seasons in a row," Coach Slovenski predicted after the invitational at Franklin Park.

Results proved him right, as Wellesley, who came into the meet with their top seven runners an average of ten seconds of ahead of MIT, captured three of the top five spots, yet fell short in the final point total.

"I'm still speechless," Slovenski said. "This is quite a respectable achievement for so young a squad."

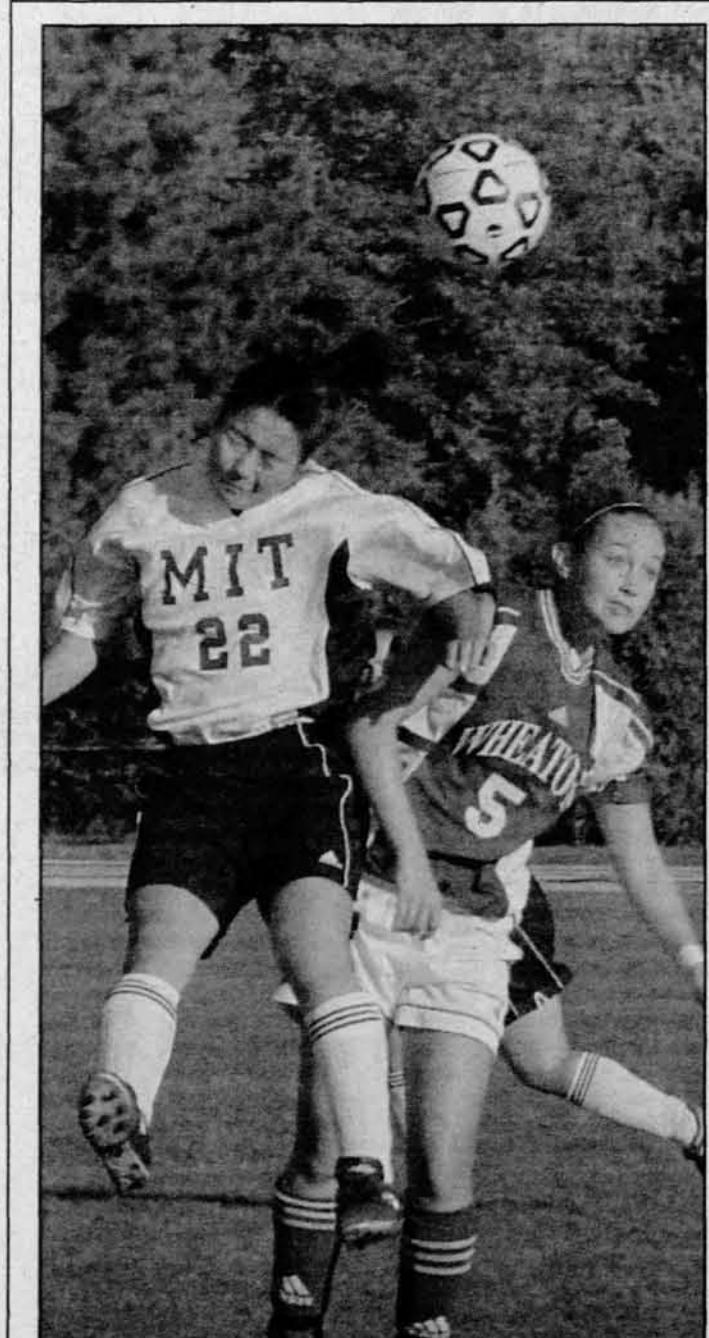
Slovenski was also impressed because of Wellesley's home course advantage.

"They had the home field advantage with all those people dressed in blue and wearing 'W's," he said.

Coming from a 27-29 deficit at the two-mile mark, MIT finished strong to flip the balance. All of the MIT team members finished the course in under 25 minutes.

Again, Slovenski is pleased with the women's performance but is looking to the next meet.

"Staying ahead is the hardest task to do in all of athletics because all contenders rise-up to try to be spoilers when they meet the top dogs," said Slovenski. "We've made our move and there's no looking back. The competition is on to us."



Aris Yonekura '05 maneuvers around her opponent to head the ball in Tuesday's game against #1 ranked Wheaton College. MIT lost 6-1.

DALTON CHENG—THE TECH